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FIELD MAINTENANCE PRINT SET

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D-UA-M7819-Ø-Ø	8 LINE EIA ASYNCHRONOUS MUX
B-BD-M7819-Ø-8	8 LINE EIA ASYNCHRONOUS MUX
D-CS-M7819-Ø-1	8 LINE EIA ASYNCHRONOUS MUX
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B-DD-5411928-0	DZ11 EIA DISTRIBUTION PANEL
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B-BD-DZ11-Ø-8	SYSTEM CONNECT DIAGRAM
D-UA-DZ11-Ø-Ø	UNIT ASSY DZ11
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D-CS-H325-0-1	H325 TEST CONNECTOR
D-IA-BCØ3M-0-0	NULL MODEM CABLE
D-IA-BCØ3P-0-0	NULL MODEM CABLE
D-UA-BCØ6L-0-0	MIRROR IMAGE CABLE (50 POS)
A-PL-DZ11-0-5	SHIPPING LIST DZ11

UNIT VARIATIONS COVERED BY THIS PRINT SET
DZ11-A
DZ11-E
DZ11-B
DZ11-AA
DZ11-BA
DZ11-EA

DZ11-A,B,E (E.I.A)

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NUMBER MPØØ132

REVISIONS	DATE	CHG. NO.	REV.
NR	8-77	DZ11-3	A
	5-78	DZ11-MKØØ5	B

EN 01124 16 MAY 76 (127)

USED ON OPTION/MODEL
DZ11

SHEET I OF 1

DRN. K. DAVIS	DATE 5/5/76	
CHK'D P. Cappalonga	DATE 5-19-76	
PROJ. ENG.	DATE	
FIELD SERV.	DATE 5-18-76	

digital

TITLE: DZ11-A,B,E FIELD MAINTENANCE PRINT SET

SIZE	CODE	NUMBER	REV.
B	TC	DZ11-Ø-6	B

DIST.

DRB 124

BLANK

SIZE	CODE	NUMBER	REV.
B	DD	M7819-D	J

DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	REVISIONS								
D-LIA-M7819-D-D	3		8 LINE EIA ASYNCHRONOUS MUX	B	B	D	E	F	F	H	J	
B-PL-M7819-D-D	4		8 LINE EIA ASYNCHRONOUS MUX	B	C	D	E	F	F	H	J	
D-CS-M7819-D-1	15		8 LINE EIA ASYNCHRONOUS MUX	B	C	D	E	F	F	H	J	
D-AH-M7819-D-5	1		8 LINE EIA ASYNCHRONOUS MUX	B	B	C	D	E	E	H	E	
		5011820	ETCHED BOARD	C	C	C	D	E	E	E	E	
M7819-D-L			P.C. DESIGN DATA BASE	REF	-	-	-	-	-	-	-	
M7819-D-PL			INSERTION P/L DATA BASE	REF	-	-	-	-	-	-	-	
B-MH-M7819-D-6	2		MODULE ECO HISTORY	REF	-	-	-	E	E	H	J	
D-BD-M7819-D-8	1		M7819 BLOCK DIAGRAM	A	A	A	A	A	A	A	A	
A-SP-M7819-D	3		SPECIFICATION	-	-	-	-	-	-	-	*	

NOTES:

REVISIONS			
DATE	CHG NO.	REV	
8-76	00001	B	
8-76	00002	C	
11-Jun-76	00003	D	
24-Sep-76	00004	E	
24-Sep-76	00005	F	
8-Dec-76	MK006	H	
8-Dec-76	MK007	J	

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USED ON OPTION/MODEL

DRN.	R. Kupperian	3-2-76
CHK'D	R. Kupperian	3-2-76
ENG.	Anita Simon	3-2-76
PROD.	R. Wall	3-2-76

TITLE 8 LINE EIA ASYNCHRONOUS MUX

SIZE	CODE	NUMBER	REV.
B	DD	M7819-D	J

SHEET 1 OF 2

SIZE	CODE	NUMBER	REV.
B	DD	M7819-0	J

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
D-UA-M7819-0-0	5		8LINE EIA ASYNCHRONOUS MUX	DI EI
B-PL-M7819-0-0	4		8LINE EIA ASYNCHRONOUS MUX	DI EI
D-CS-M7819-0-1	15		8LINE EIA ASYNCHRONOUS MUX	DI EI
D-AH-M7819-0-5	1		8LINE EIA ASYNCHRONOUS MUX	D E
		5011820	ETCHED BOARD	D E
M7819-0-L			PC DESIGN DATA BASE	REF —
M7819-0-PL			INSERTION P/L DATA BASE	REF —
B-MH-M7819-0-6	2		MODULE ECO HISTORY	F F
D-BD-M7819-0-8			M7819 BLOCK DIAGRAM	A A

NOTES:

REVISIONS	REV.	F	F
	CHG NO.	MK005	MK005
	DATE		

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USED ON OPTION/MODEL			

DRN.	R. KOPPENAL	3-2-76
CHK'D	R. KOPPENAL	3-2-76
ENG.	R. CORMIER	3-2-76
PROD.	R. WALL	3-2-76

TITLE: 8 LINE EIA ASYNCHRONOUS MUX

SIZE	CODE	NUMBER
B	DD	M7819-0

SHEET 2 OF 2

DRB 1-76

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY R.KOPPENAL
DATE 3-1-76
CHECKED Gerry A. Armey
DATE 3-2-76
SECTION
ENG Gerry A. Armey
DATE 3-2-76
PROD R. Wall
DATE 3-2-76
ISSUED SECTION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY/VARIATION M7819-00	M7819-YA	M7819-YB	M7819-YC									NOTES: REF DESIGNATION
1.		5011820	ETCH BOARD	1	1	1	1									
2.		1000025	CAP, 560PF, 100V, 5%	2	2	2	2									C92, C53
3.		1000018	CAP, 120PF, 100V, 5%	2	2	2	2									C99, C96
4.		1000024	CAP, 470PF, 100V, 5%	26	26	26	26									C93, C100-122, C131, C132
5.		1000042	CAP, 1000PF, 100V; 5%	1	1	1	1									C98
6.		1001610-00	CAP, 01UF, 50V	91	91	91	91									C1-C52, C54-C91, C130
7.		1000010	CAP, 39PF, 100V, 5%	1	1	1	1									C97
8.		1005306	CAP, 6.8UF, 35V, 10%	6	6	6	6									C123-C126, C128, C129
9.		1000021	CAP, 220PF, 100V, 5%	1	1	1	1									C95
10.		1000023	CAP, 330PF, 100V, 5%	1	1	1	1									C94
11.		1105796	DIODE, IN4004	2	2	2	2									D1, D5
12.		1109943	DIODE, IN4733A	2	2	2	2									D2, D6
13.		1103340	DIODE, IN4736A	2	2	2	2									D3, D7
14.		1101938	DIODE, IN4370A	2	2	2	2									D4, D8
15.		1905547	IC, 7474	1	1	1	1									E96
16.		1909705	IC, 8881	1	1	1	1									E72
17.		1910091	IC, 7437	2	2	2	2									E24, E68
18.		1910322	IC, 1488L	4	4	4	4									E7 - E10
19.		1910323	IC, 1489L	6	6	6	6									E1 - E6
20.		1910454	IC, 9318	1	1	1	1									E82
21		2114137-50	IC UART	8	8	8	8									E44 - E51

E.C.O. NO. 00001 00002 00003 00004 MK006 MK007

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TITLE 8 LINE EIA ASYNCHRONOUS MUX

ASSY NO. D-UA-M7819-Ø-Ø
SHEET 1 OF 4

SIZE B | CODE PL | NUMBER M7819-Ø-Ø | REV. J
INSERTION PARTS LIST DATA BASE REV

M-01140-16-M1075-(325) DRB 1..

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY R. KOPPENAL DATE 3-1-76 | CHECKED Gerald A. Comeau DATE 3-2-76 | SECTION

ENG Gerald A. Comeau DATE 3-2-76 | PROD R. Wall DATE 3-2-76 | ISSUED SECTION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY/VARIATION M7819-00	M7819-YA	M7819-YB	M7819-YC									NOTES: REF DESIGNATION
22.		1910951	IC, 9602	2	2	2	2									E78, E106
23.		1911116	IC, 8837	1	1	1	1									E70
24.		1911579	IC, 8641	4	4	4	4									E28, E29, E36, E37
25.		1912083	IC, 8647	2	2	2	2									E89, E90
26.		1912395	IC, 8136	3	3	3	3									E61, E71, E80
27.		1912799	IC, 74LS00	4	4	4	4									E23, E73, E76, E99
28.		1912801	IC, 74LS02	1	1	1	1									E108
29.		1912803	IC, 74LS04	5	5	5	5									E13, E14, E86, E101, E12
30.		1912805	IC, 74LS08	4	4	4	4									E63, E65, E87, E107
31.		1912807	IC, 74LS10	1	1	1	1									E97
32.		1912811	IC, 74LS21	1	1	1	1									E69
33.		1912816	IC, 74LS32	2	2	2	2									E100, E84
34.		1912824	IC, 74LS74	4	4	4	4									E77, E85, E88, E109
35.		1912830	IC, 74LS90	1	1	1	1									E66
36.		1912842	IC, 74LS138	2	2	2	2									E74, E75
37.		1912844	IC, 74LS151	2	2	2	2									E91, E92
38.		1912845	IC, 74LS153	8	8	8	8									E30 - E33, E38 - E41
39.		1912846	IC, 74LS155	3	3	3	3									E83, E94, E95
40.		1912847	IC, 74LS157	5	5	5	5									E19-22, E102
41.		1912853	IC, 74LS175	13	13	13	13									E15-18, E26, E27, E34, E35, E42, E43, E93, E98, E104

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TITLE 8 LINE EIA ASYNCHRONOUS MUX

ASSY NO. D-UA-M7819-Ø-Ø

SHEET 2 OF 4

SIZE	CODE	NUMBER	REV.
B	PL	M7819-Ø-Ø	J

INSERTION PARTS LIST DATA BASE REV

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY R. KOPPENAL DATE 3-1-76 | CHECKED [signature] DATE 3-2-76 | SECTION

ENG [signature] DATE 3-2-76 | PROD R. Wall DATE 3-2-76 | ISSUED SECTION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY/VARIATION M7819-00	M7819-YA	M7819-YB	M7819-YC									NOTES: REF DESIGNATION
42.		1912860	IC, 74LS259	3	3	3	3									E62, E64, E103
43.		2111188	IC, 3341	4	4	4	4									E57-60
44.		2112623	IC, 5016	4	4	4	4									E53-56
45.		1912854	IC, 74LS193	2	2	2	2									E79, E105
46.		1300202	RES, 47 OHM, 1/4W, 5%	5	5	5	5									R1-5
47.		1300229	RES, 100 OHM, 1/4W, 5%	4	4	4	4									R13, R15, R67, R68
48.		1300309	RES, 390 OHM, 1/4W, 5%	1	1	1	1									R30
49.		1300365	RES, 1K, 1/4W, 5%	5	5	5	5									R11, R12, R14, R27, R61
50.		1300479	RES, 10K, 1/4W, 5%	17	17	17	17									R16-25, R31-36, R62
51.		~~1313349~~	~~RES, 33K, 1/4W, 5%~~	~~24~~												~~R37-60~~
52.		1301322	RES, 180 OHM, 1/4W, 5%	4	4	4	4									R28, R29, R63, R26
53.		1301874	RES, 5.6K, 1/4W, 5%	2	2	2	2									R64, R65
54.		1302177	RES, 47K, 1/4W 5%	25	25	25	25									R66, R37-R60
55.		1209838	PRIORITY SOCKET 16 PIN	1	1	1	1									E52
56.		1209941-03	LEFT LATCH FOR BERG PC HEADER	1	1	1	1									
57.		1209941-04	RIGHT LATCH FOR BERG PC HEADER	1	1	1	1									
58.		1209941-07	50 PIN BERG PC HEADER	1	1	1	1									J1
59.		1210711-02	HANDLE ASSLY	1	1	1	1									
60.		1211164-04	SWITCH, 8 POSITION	1	1	1	1									E11
61.		1211164-06	SWITCH, 10 POSITION	1	1	1	1									E81

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TITLE: 8 LINE EIA ASYNCHRONOUS MUX

ASSY NO. D-UA-M7819-Ø-Ø

SHEET 3 OF 4

SIZE B | CODE PL | NUMBER M7819-Ø-Ø | REV. J

INSERTION PARTS LIST DATA BASE REV

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY R. KOPPENAL DATE 3-1-76 | CHECKED Gerry A. Comeau DATE 3-2-76 | SECTION

ENG Gerry A. Comeau DATE 3-2-76 | PROD R. Wall DATE 3-2-76 | ISSUED SECTION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7819-00	M7819-YA	M7819-YB	M7819-YC	NOTES: / REF DESIGNATION
62		5408778	PRIORITY 5 INSERT	1	1	1	1	PLUG INTO E52
63		9006735	SPLIT LUG	2	2	2	2	
64		900024-01	EYELETS	12	12	12	12	
65		9009185	JUMPER, INSULATED	1	1	1	1	W1
66		1811660-02	OSCILLATOR, 5.068 MHZ	1	-	-	-	E67
67		1811660-08	OSCILLATOR, 2.619 MHZ	-	1	-	-	E67
68		1811660-09	OSCILLATOR, 3.0737 MHZ	-	-	1	-	E67
69		2M123A-00	OSCILLATOR, 3.3792 MHZ	-	-	-	1	E67

E.C.O. NO.

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TITLE: 8 LINE EIA ASYNCHRONOUS MUX

ASSY NO. D-UA-M7819-Ø-Ø | SIZE B | CODE PL | NUMBER M7819-Ø-Ø | REV. J

SHEET 4 OF 4 | INSERTION PARTS LIST DATA BASE REV

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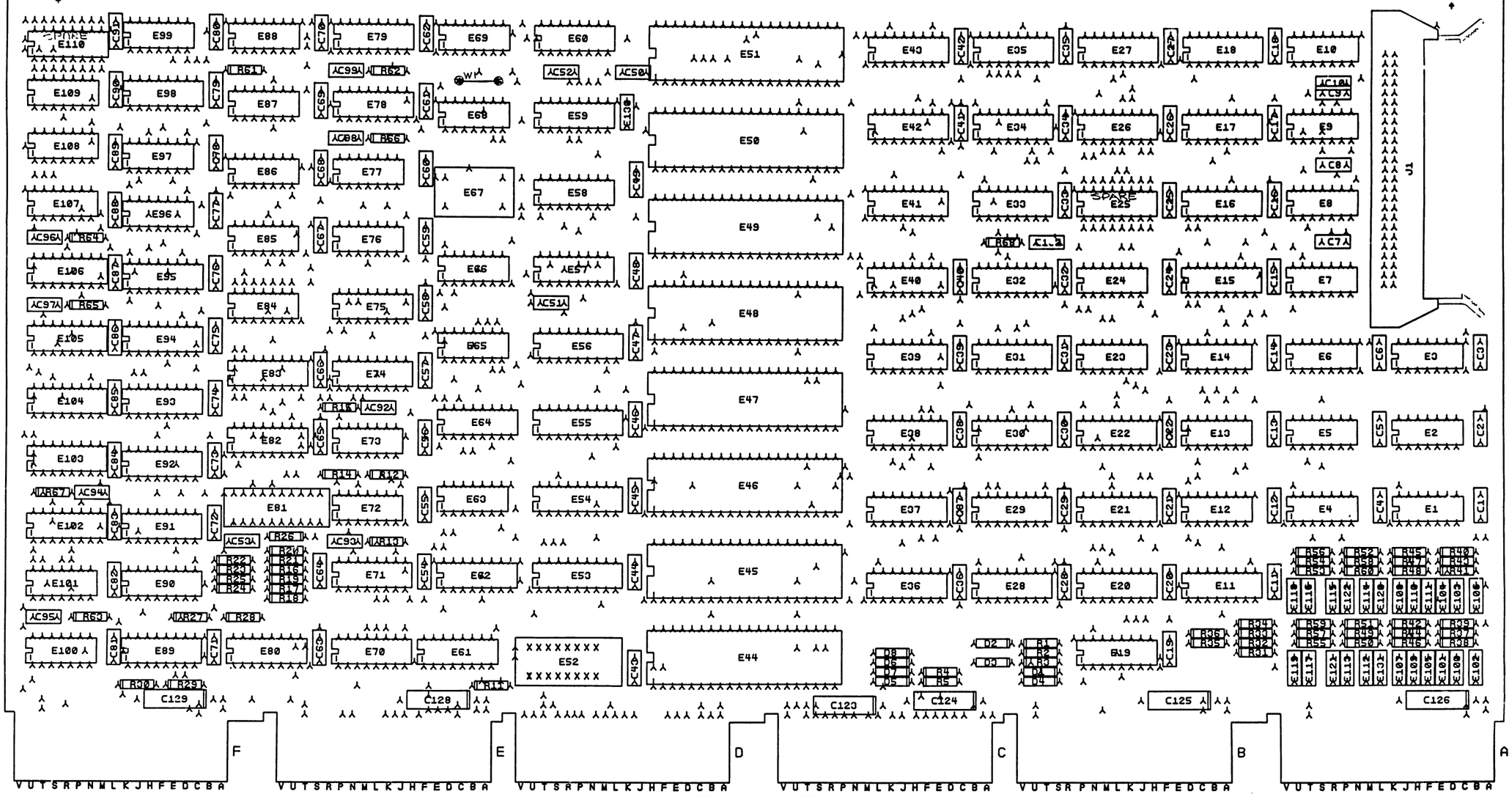
COMPONENT SIDE VIEW



NOTES:
1. B HOLES .0465 (+.000 -.0045) MAYNARD ONLY

CHK	CHANGE NO	REV
1976	M7819-0000 REVISED & REDRAWN	H
	M7819-MKOO	J
	M7819-MK1	J

HOLE DATA

SYMBOL	+	△	X	◇	Z	W	Δ	□	◇	*
FIN HOLE SIZE	.066	.038	.054	.128						
PLATED	✓	✓	✓	✓						
NON PLATED										
QTY.	20	122	16	2						
○-OFF GRD HLE										
DRILL SIZE										

.025 GRID UNLESS INDICATED

BOARD FABRICATION INFORMATION

PANEL SIZE	HEX 8.50 X 17.00
PANEL DATA DWG.#	E-MD-7606098-0-0
PANEL MAT'L	FL-GF-.052-C 1/1
DEC PS -	1400000
QTY. OF LAYERS	4
PTH& X PRINT AND ETCH	
SOLDER MASK Y	SIDE 2 Y BOTH SIDES
GOLD CONTACTS Y	BOTTOM Y TOP

SIGNATURES	DATE
DRN. R.A. LEVASSEUR	29AUG77
CHK'D.	2-SEP77
ENG.	19JAN78
PROJ.ENG.	19JAN78
PROD.	
SCALE 2:1	
SHT. 1 OF 5	
NEXT HIGHER ASSY. B-DD-M7819-0	

digital

TITLE 8 LINE EIA ASYN MUX

SIZE	CODE	NUMBER	REV
D	UA	M7819-0-0	J

ETCH REV E-PE

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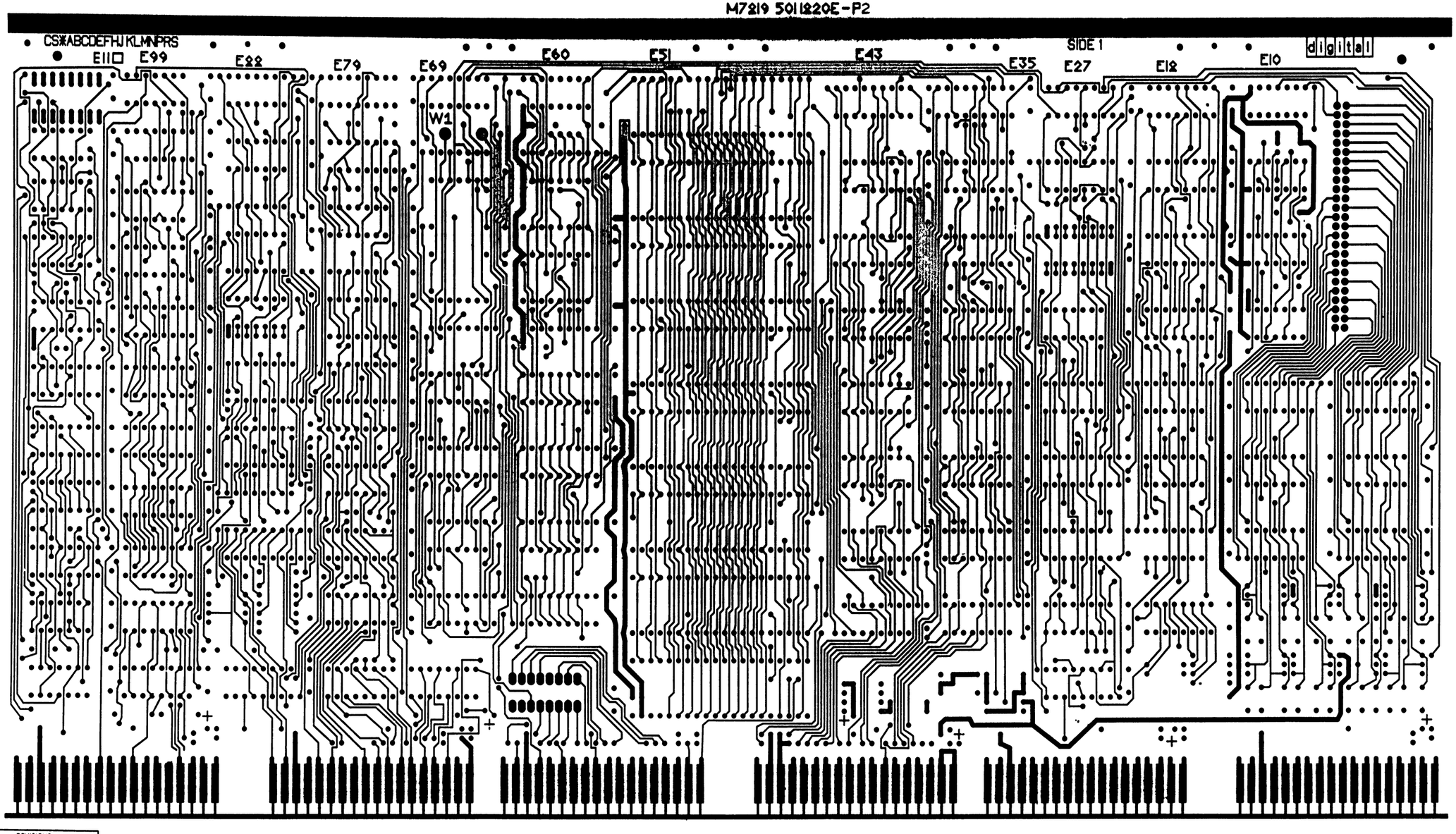
LAYER 1

M7819 501820E-P2



REVISIONS			
CHG	CHANGE NO		

TITLE	SIZE	CODE	NUMBER	REV
8 LINE EIA ASYN MUX	D	UA	M7819-0-[illegible]	J
SCALE	SHEET 2 OF 5		DIST.	

D UA M7819-0-0 J

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GND

LOWER

M7819
5011820E-P2

REVISIONS

TITLE	SIZE	CODE	NUMBER
8 LINE EIA ASYN MUX	D	UA	M7819-0-0
SCALE	SHEET 3 OF 5	DIST	

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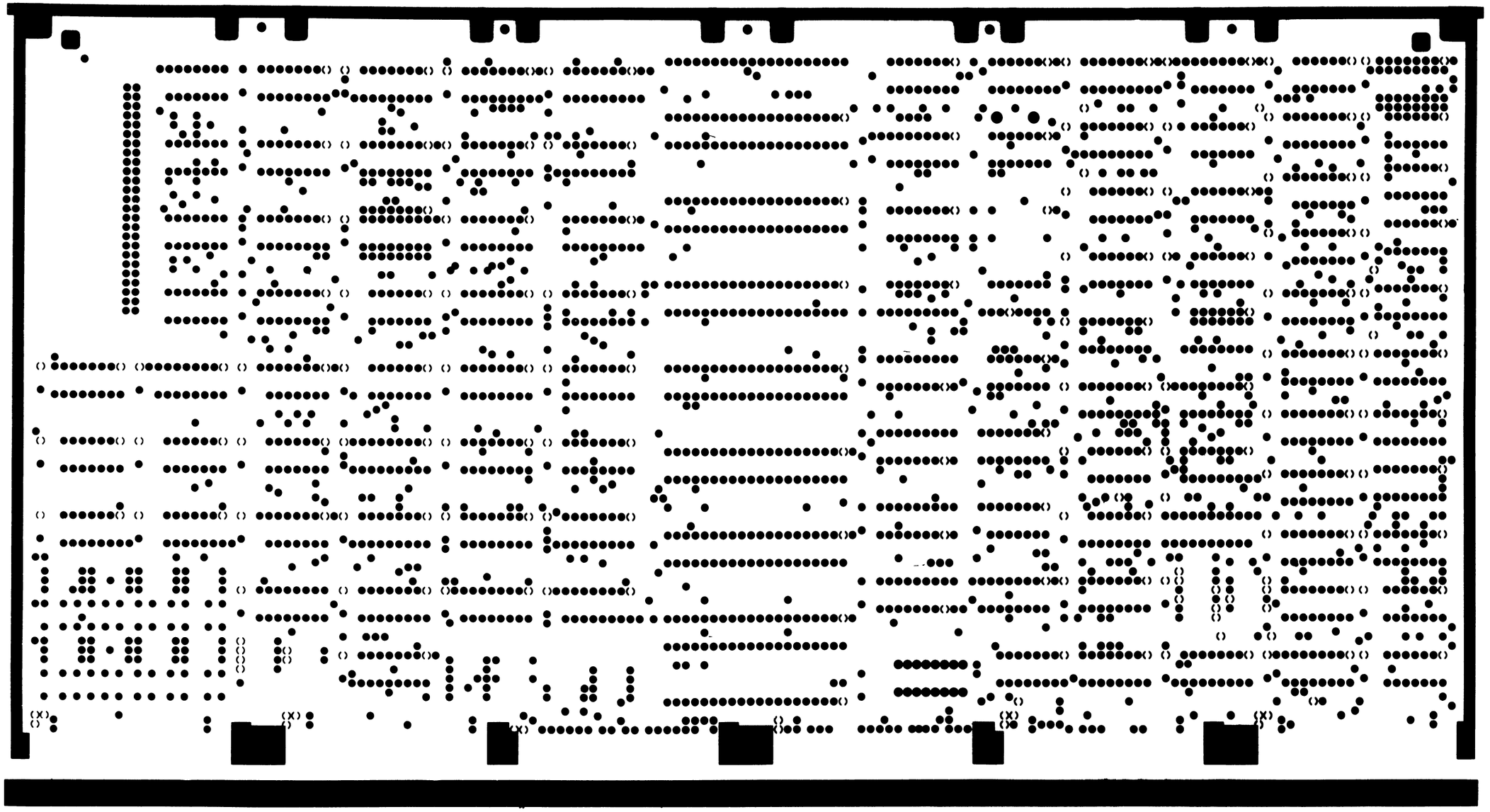

REVISIONS		
CHK	CHANGE NO.	REV

TITLE: 8 LINE EIA ASYN MUX		SIZE: D	CODE: UA
SCALE	SHEET 4 OF 5	DIST	NUMBER: M7819-0-0

8 LINE EIA ASYNCHRONOUS MUX

TITLE	SIZE	CODE	NUMBER	REV
8 LINE EIA ASYN MUX	D	UA	M7819-0-0	-
SCALE	SHEET 5 OF 5	DIST		

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UNIBUS

INTERRUPT CONTROL SHT#3
BUS NPR
BUS SSYN
BUS BG IN
BUS BBSY
BUS BG OUT
BUS BR
BUS SACK
BUS INTR
V (8:2)
INTR
T INT
R INT
RESET

DATA TRANSCEIVERS SHT#8
BUS (21:00)
D (15:00)
RD (15:00)

ADDRESS SELECT SHT#2
SEL RA2 RA1 CCI
L DATA
LD CSR
LD HCSR
LD LCSR
LD RBUF
LD LPR
INH SSYN
LD LTCR
LD LTDR
LD TCR
LD TDR
LD HTCR
LD HTDR
INIT
BUS INIT
BUS CI
BUS CO
BUS MSYN
BUS A (17:00)
BUS SSYN

INTR
V (8:2)
R DONE
SILO OUT
SA
M SCAN EN
DV
SAE
RIE
TIE
TRDY
T LINE C
T LINE B
T LINE A
MAINT
LINE (7:0)
CO (7:0)
RI (7:0)
DTR (7:0) RCI
SEL RA2 RA1 CLEAR

CLR
R DONE
T INT
LD CSR
LD HCSR
LD LCSR
R INT
RD RBUF
CSR SHT#6
M SCAN EN
SAE
MAINT
RESET MAINT MSCAN EN SAE RIE TIE RD (15:00) TRDY SA

IR R DONE
M SCAN EN
SAE
MAINT
INH SSYN
SHI
SHO
RECEIVER CONTROL SHT#9
SCAN C
SCAN B
SCAN A
SA
RD RBUF
SDI (7:0)
SI (7:0)
DV
SDO (7:0)
LD LPR
RD (2:0)
INH SSYN
L DATA
RDA (7:0)
SAM (7:0)
DA
V

LINE & TBUF SHT#6
LD LTCR
LD LTDR
LD TDR
LD TCR
LD TBUF
RESET
LINE (7:0)
TBUF (7:0)
RD (7:00)

RD (15:07)
LD TCR
LD TDR
LD HTCR
LD HTDR
RESET
INIT
BRI (7:0)
DTR (7:0)
BREAK & DTR SHT#5

RESET V
INIT
RESET SHT#8
CLR
CLEAR INIT

SILO & CLK SHT#11
IR
R DONE
SILO OUT
M SCAN ENA
MASTER CLK
CS (7:0)
INH SSYN
SHI
SHO
SCANC SCAN B SCAN A
PER
FER
OVR
T CLK (7:0)
R CLK (7:0)
RDI (7:0)
RESET
RD (15:0)

SCAN C
SCAN B
SCAN A
T RDY
T LINE C
T LINE B
T LINE A
PH 4
PH 2
PH 1
CLK
LD TBUF
LINE (7:0)
TRANSMIT CONTROL SHT#10
RESET
DS (7:0)
V
TBMT

EIA RECEIVERS SHT#4
CO (7:0)
RI (7:0)
RDI (7:0)
CO (7:0)
RI (7:0)
REC (7:0)

EIA DRIVERS SHT#5
SDO (7:0)
BRK (7:0)
DTR (7:0)

J1
BC08W
TO DISTRIBUTION PANEL

PER
FER
OVR
T CLK (7:0)
R CLK (7:0)
RDI (7:0)
CS (7:0)
RESET
DS (7:0)
TBMT
UARTS SHT#12 THRU#15
SI (7:0)
RDA (7:0)
SAM (7:0)
DA
SDO (7:0)
TBUF (7:0)
RD (7:0)

DRN	K. Dunn	2-26-76
CHK	D. Conroy	3-2-76
ENG	K. Dunn	3-2-76
PROJ	D. Conroy	3-2-76
PROD	R. Wall	3-2-76

FIRST USED ON: DZ11-A
digital
TITLE: M7819 BLOCK DIAGRAM
NEXT HIGHER ASS'Y: D-UA-M7819-0-0
SCALE: —
SHEET 1 OF 1
SIZE D | CODE BD | NUMBER M7819-0-8 | REV A
DIST

REVISIONS | REV | CHANGE NO | CHK

DEC FORM 40 DP 102 D

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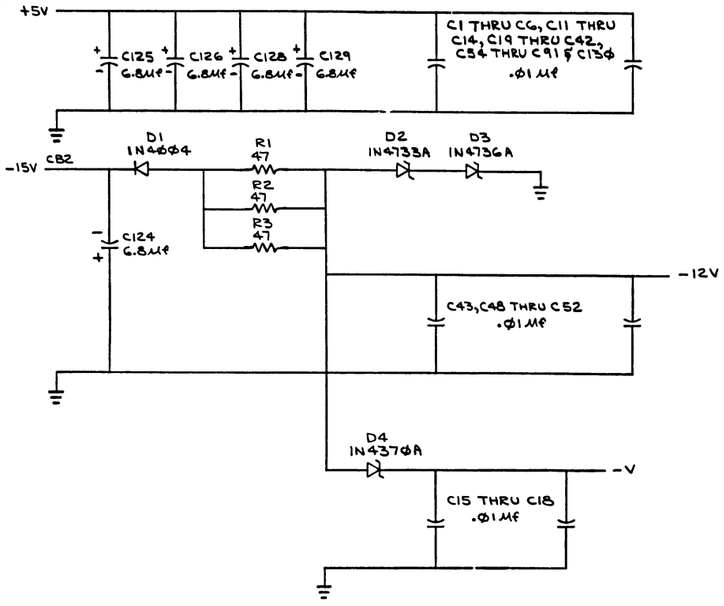
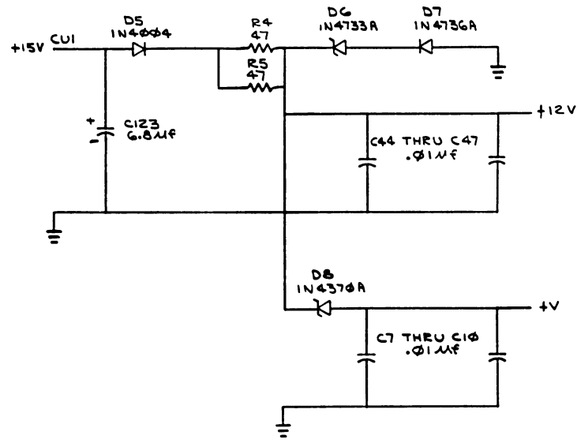
POWER & GROUND TABLE						
IC TYPE	GND	+5V	+12V	-12V	V+	V-
UART (1602)	PIN 3	PIN 1	—	PIN2	—	—
DEC 5016	PIN11	PIN 2	PIN 9	—	—	—
DEC 3341	PIN 8	PIN 16	—	PIN 1	—	—
DEC 1488	PIN 7	—	—	—	PIN 14	PIN 1
14 PIN IC'S	PIN 7	PIN 14	—	—	—	—
16 PIN IC'S	PIN 8	PIN 16	—	—	—	—
DEC 74LS90	PIN 10	PIN 5	—	—	—	—

AA2, BA2, DA2, EA2, FA2





NOTES:

1. THE 'B' AND 'D' INPUTS SHOWN ON THE 8136 LOGIC SYMBOL HAS THE FOLLOWING MEANING:
   B=UNIBUS RECEIVER INPUT.
   D=NORMAL TTL LOGIC INPUT.
2. THE 8136 CONTAINS SIX VOLTAGE COMPARATORS WITH A COMMON OUTPUT. EACH COMPARATOR MUST HAVE ITS 'B' AND 'D' INPUTS THE SAME, AT THE SAME TIME, FOR A TRUE (HIGH) OUTPUT.
3. WHEN A SWITCH IS CLOSED (ON) THE COMPARATOR RECOGNIZES THE RESPECTIVE UNIBUS ADDRESS BIT WHEN IT IS A LOGIC ONE (LOW). WHEN A SWITCH IS OPEN (OFF) THE COMPARATOR RECOGNIZES THE RESPECTIVE UNIBUS ADDRESS BIT WHEN IT IS A LOGIC ZERO (HIGH).
4. PRIORITY 5 IS STANDARD FOR THIS MODULE; THEREFORE E52 SHOWS THE REQUEST AND GRANT PATHS FOR PRIORITY 5.
5. WHEN A SWITCH OPEN (OFF), THE RESPECTIVE VECTOR IS @ 'ONE'. WHEN A SWITCH IS CLOSED (ON), THE RESPECTIVE VECTOR BIT IS @ 'ZERO'.

REVISIONS		
CHK	CHANGE NO.	REV.
EL	M7819-00001	C
H. Dynamore 6-4-76		
R.A. CORMIER		
R. COMPTON 7-29-76	M7819-00002	F
H. Dynamore 8-30-76		
R. COMPTON		
Gerry Smith	M7819-00003	E
C. Jones 10-Nov-76		
J. ROBERTS		
Gerry Smith	M7819-00004	F
J. P. ROBERTS		
Gerry Smith 12-Jan-77	M7819-MK0006	H
H. Dynamore 06-APR-77		
R. HARRINGTON		
Terry Hanrahan	M7819-MK0007	J
E. Pierce 19-APR-77		
R. HARRINGTON		
Terry Hanrahan		

(POWER AND GROUND)

DRN K. Davis	2-11-76	FIRST USED ON M7819	digital
CHK Richard Comp	3-2-76	TITLE 8 LINE EIA ASYNCHRONOUS MUX (SI)	
ENG Richard Comp	3-2-76		
PROJ. ENG Richard Comp	3-2-76		
PROD C. W. Ellis	3-2-76		
NEXT HIGHER ASSY D-UA-M7819-0-0		SIZE D / CODE CS / NUMBER M7819-0-1 / REV. J	
SCALE —			
SHEET 1 OF 15		DIST	

1-0-6187 WSC D

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+5V
R16 10K
R17 10K
R18 10K
R19 10K
R20 10K
R21 10K
R22 10K
R23 10K
R24 10K
R25 10K
E81
8136 E71
8136 E80
OUT
STB
BUS A12 L
BUS A11 L
BUS A10 L
BUS A09 L
BUS A08 L
BUS A07 L
BUS A06 L
BUS A05 L
BUS A04 L
BUS A03 L
SEE NOTE 3
SEE NOTES 1 & 2
R11 1K
74LS04 E73
8881 E72
R12 1K
R13 10Ω
C93 47ΩPF
τ=100 NSEC
S9 INH SSYN L
BUS SSYN L
R14 1K
R15 10Ω
C92 56ΩPF
74LS04 E73
S2 L DATA H
8136 E61
BUS MYSN L
BUS A17 L
BUS A16 L
BUS A15 L
BUS A14 L
BUS A13 L
EL2
S2 SEL L
74LS32 E84
RD RBUF L
BUS C0 L
BUS C1 L
BUS A02 L
BUS A01 L
BUS A00 L
BUS INIT L
8837 E70
74LS138 E74
74LS138 E75
S2 LD CSR L
S2 LD LPR L
S2 LD TCR L
S2 LD TDR L
S2 LD LCSR L
S2 LD HCSR L
S2 LD LTCR L
S2 LD HTCR L
S2 LD LTDR L
S2 LD HTDR L
S2 EC1 H
S2 EA2 H
S2 RA1 H
S2 INIT H

REVISIONS
CHK | CHANGE NO | REV

TITLE: ADDRESS SELECT
MUX (S2)
SIZE D | CODE CS | NUMBER M7819-0-1 | REV J
SCALE | SHEET 2 OF 15 | DIST
DEC FORM NO

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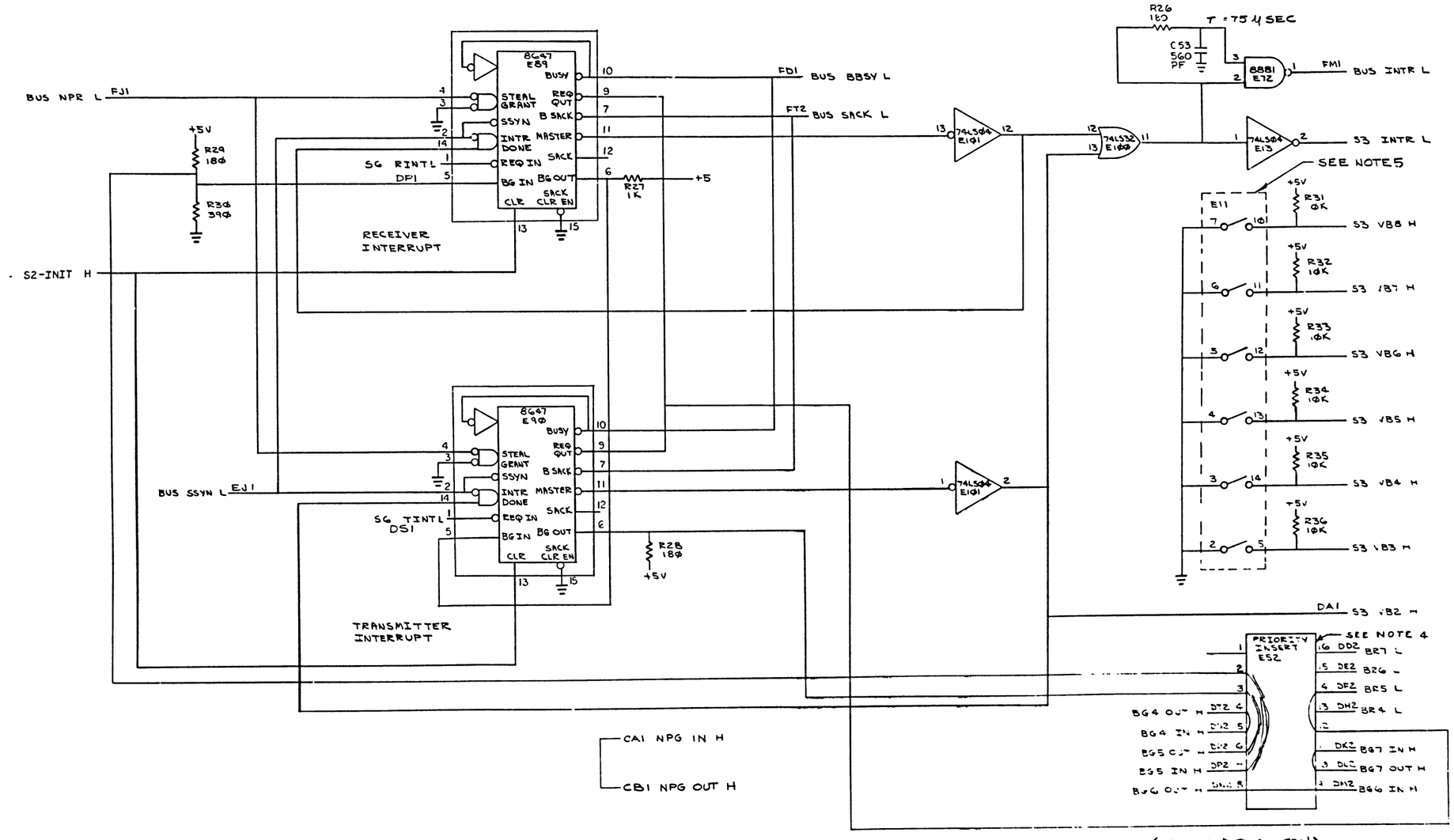

(INTERRUPT CONTROL)

REVISIONS		
CHK	CHANGE NO	REV

TITLE	M.F. EIA ASYNCHRONOUS MUX (S3)	SIZE	CODE	NUMBER	REV.
		D	CS	M7819-Ø-1	J
S.A.L.	SHEET 3 OF 15	DIST			

DEC FORM NO

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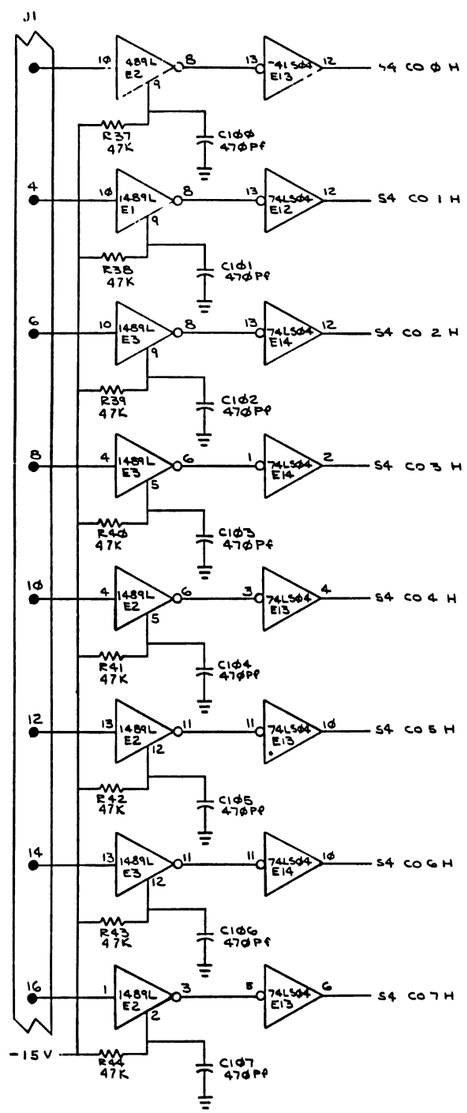

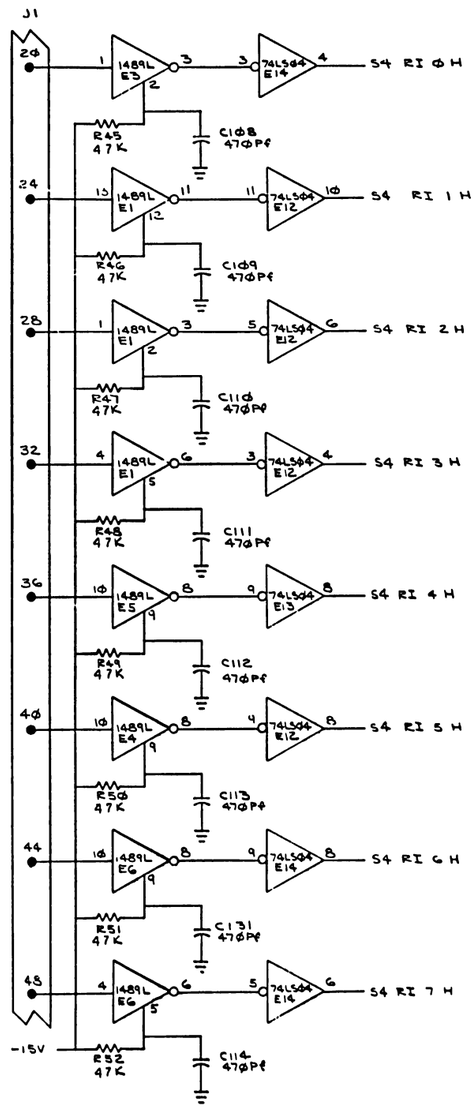

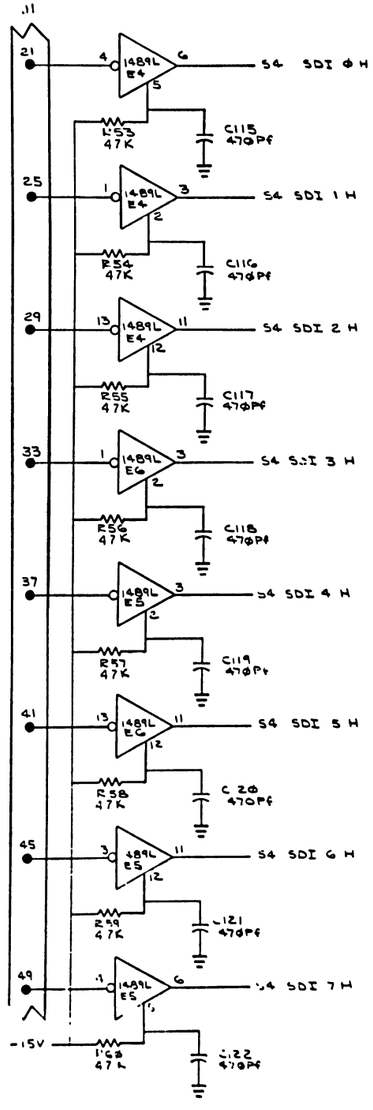

REVISIONS		
CHK	CHANGE NO	REV

(FIA RECEIVERS)

TITLE	SIZE	CODE	NUMBER	REV
M7819 FIA EXPANSION U... MUX	D	CS	M7819-Ø-1	J
SCALE	SHEET 4 OF 15			

DEC FORM NO DRD 1.28

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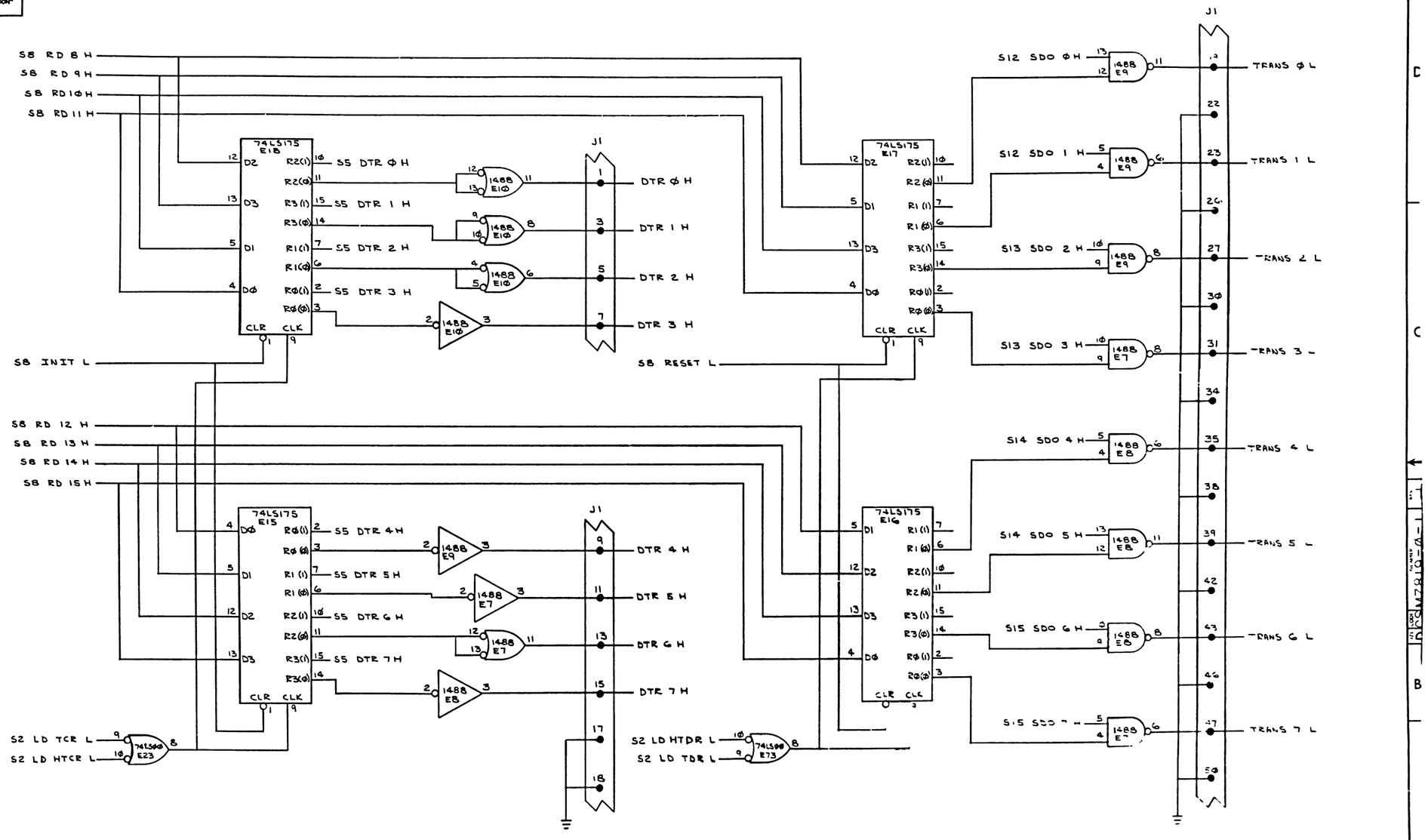

REVISIONS		
CHK	CHANGE NO	REV

DECSM7819-0-1

(DIR&BRK EIA TRANSMITTER & LINE EIA ASYNCHRONOUS MUX)

SIZE	DWG NO	NUMBER	REV
D	DCS	M7819-0-1	J

SCALE: 3/4 | DIST

DEC FORM NO

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SB RD Ø H
SB RD 1 H
SB RD 2 H
SB RD 3 H

74LS175 E42
D Ø — R Ø(1) — 2 — SG LINE Ø H
R Ø(Ø) — 3
D1 — R1(1) — 7 — SG LINE 1 H
R1(Ø) — 6
D3 — R3(1) — 15 — SG LINE 2 H
R3(Ø) — 14
D2 — R2(1) — 10 — SG LINE 3 H
R2(Ø) — 11
CLR (1) CLK (9)

74LS175 E43
D Ø — R Ø(1) — 2 — SG TBUF Ø H
R Ø(Ø) — 3
D1 — R1(1) — 7 — SG TBUF 1 H
R1(Ø) — 6
D3 — R3(1) — 15 — SG TBUF 2 H
R3(Ø) — 14
D2 — R2(1) — 10 — SG TBUF 3 H
R2(Ø) — 11
CLR (1) CLK (9)

SB RD 14 H
SB RD 12 H

74LS175 E26
D1 — R1(1) — 7 — SG TIE H
R1(Ø) — 6
D2 — R2(1) — 10 — SG SAE H
R2(Ø) — 11
D3 — R3(1) — 15
R3(Ø) — 14
D Ø — R Ø(1) — 2
R Ø(Ø) — 3
CLR (1) CLK (9)

S1Ø TRDY H — 74LS04 E99 — SG T INT L

74LS08 E87
S11 RDONE H — 9
1Ø — 8

74LS32 E100
S9 SH H — 5
4 — 6

74LS10 E97
3, 4, 5 — 6 — SG R INT L

SB RESET L

S2 LD HCSR L — 74LS04 E76 — 12, 13 — 11

SB RD 4 H
SB RD 5 H
SB RD 6 H
SB RD 7 H

74LS175 E34
D3 — R3(1) — 15 — SG LINE 4 H
R3(Ø) — 14
D2 — R2(1) — 10 — SG LINE 5 H
R2(Ø) — 11
D1 — R1(1) — 7 — SG LINE 6 H
R1(Ø) — 6
D Ø — R Ø(1) — 2 — SG LINE 7 H
R Ø(Ø) — 3
CLR (1) CLK (9)

74LS175 E35
D3 — R3(1) — 15 — SG TBUF 4 H
R3(Ø) — 14
D2 — R2(1) — 10 — SG TBUF 5 H
R2(Ø) — 11
D1 — R1(1) — 7 — SG TBUF 6 H
R1(Ø) — 6
D Ø — R Ø(1) — 2 — SG TBUF 7 H
R Ø(Ø) — 3
CLR (1) CLK (9)

74LS175 E27
D2 — R2(1) — 10 — SG MAINT H
R2(Ø) — 11
D Ø — R Ø(1) — 2 — SG CLR H
R Ø(Ø) — 3
D3 — R3(1) — 15 — SG MSCAN EN H
R3(Ø) — 14 — SG MSCAN EN L
D1 — R1(1) — 7 — SG FIE H
R1(Ø) — 6
CLR (1) CLK (9)

S2 LD TCR L — 9
S2 LD LTCR L — 16
74LS08 E76 — 8

S2 LD LTDR L — 4
S2 LD TDR L — 5
74LS08 E76 — 6
SG LD TBUF H

S2 LD CSR L — 2
S2 LD LCSR L — 1
74LS08 E76 — 3

REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO DRD 128

TITLE: ...INE E IA ASYN... A UN...
SIZE: D | CODE: DC | NUMBER: M7819-0-1 REV
SCALE: — | SH LT 6 OF 15 | DST

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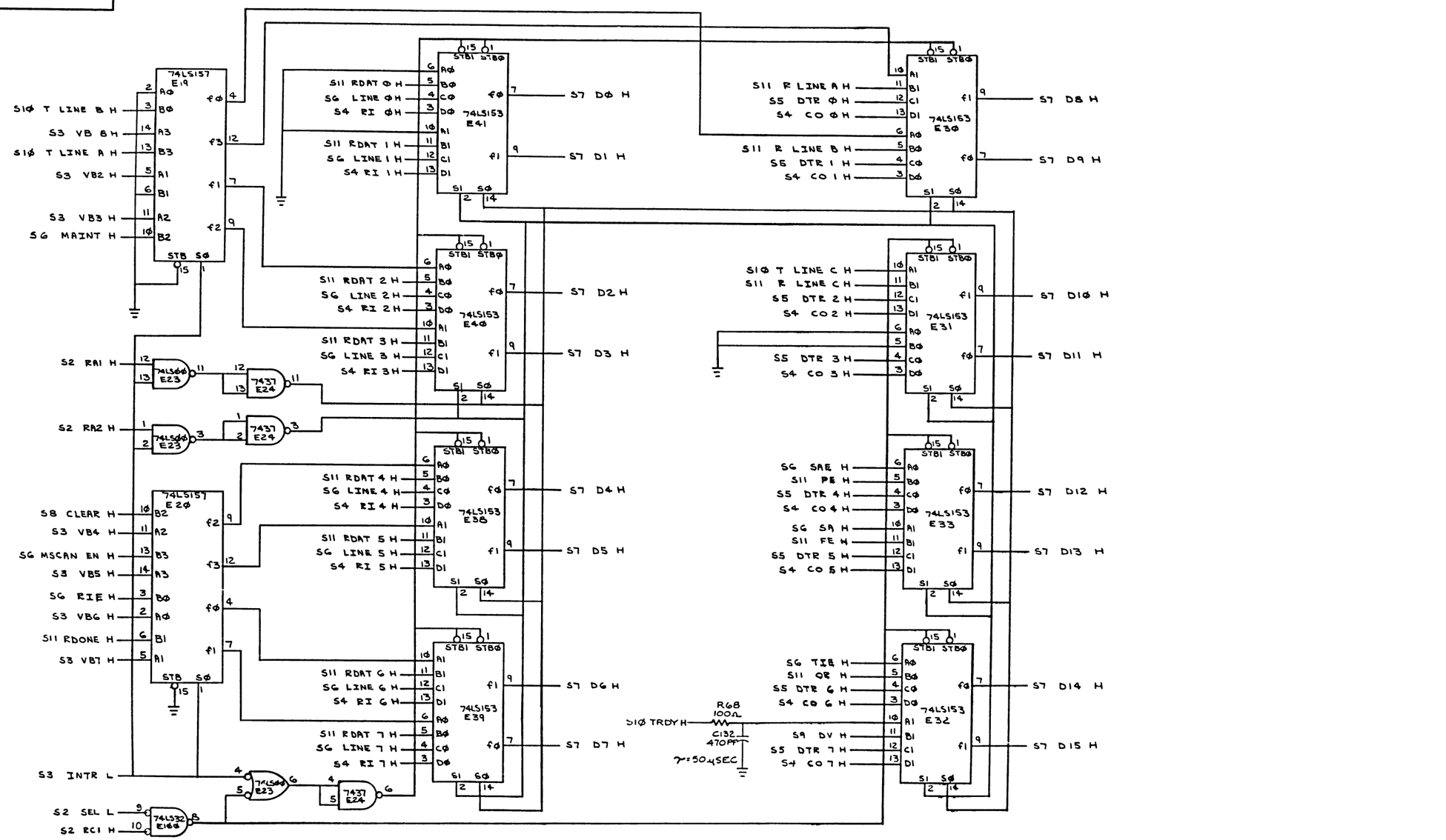

REVISIONS		
CHK	CHANGE NO	REV

(OUTPUT DATA MULTIPLEXER)

TITLE	SIZE	CODE	NUMBER	REV
8 LINE EIA ASYNCHRONOUS MUX (S7)	D	CS	M7819-Ø-1	J
SCALE	SHEET 7 OF 15	DIST		

DEC FORM NO. DRD 130

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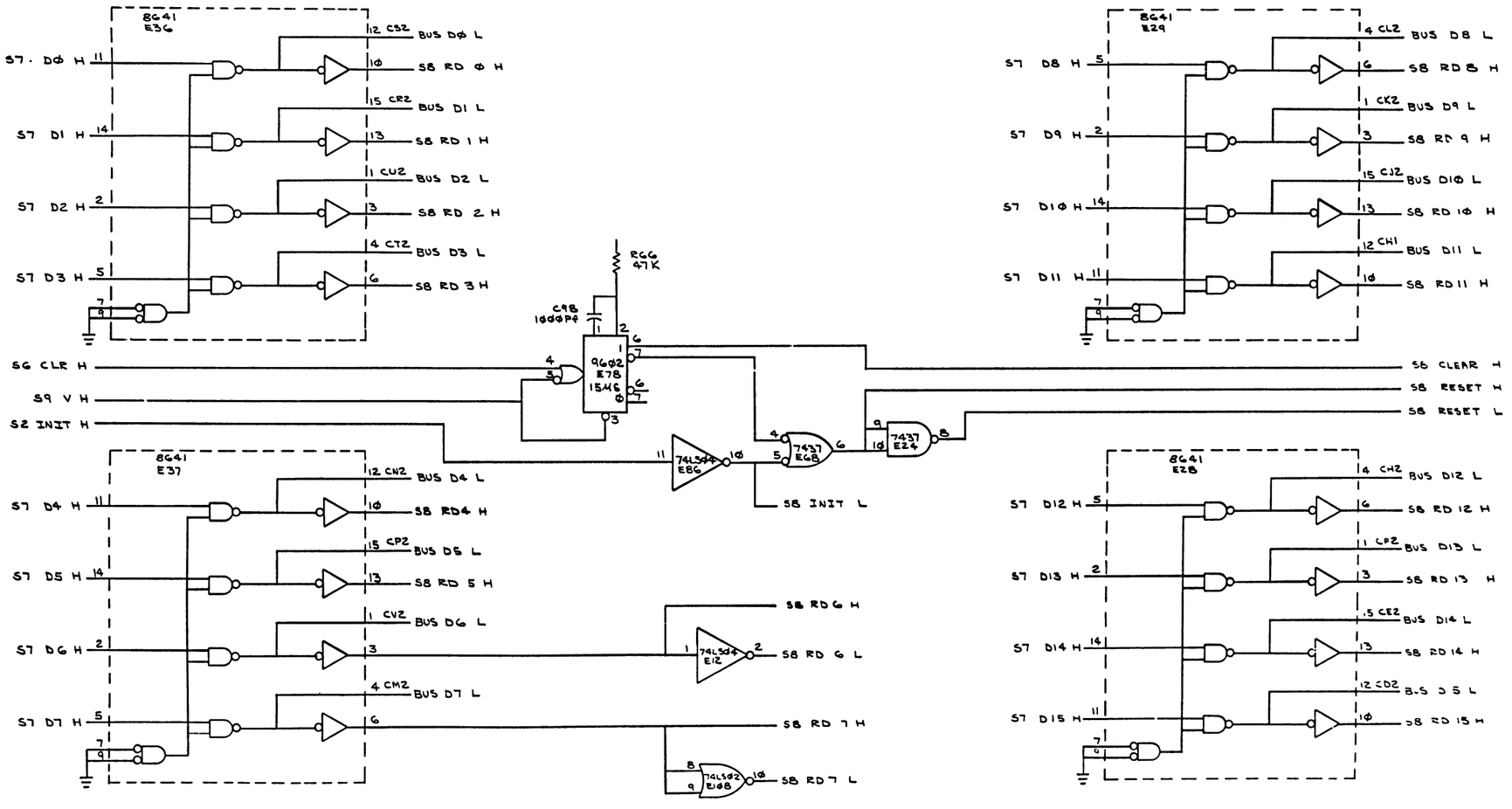

REVISIONS		
CHK	CHANGE NO	REV

(UNIBUS TRANSCEIVERS AND RESET)

TITLE	SIZE	CODE	NUMBER	REV
8 LINE EIA ASYNCHRONOUS (S9) MUX	D	CS	M7819-Ø-1	J
SCALE —	SHEET 8 OF 15	DIST		

DEC FORM NO DRD 1"-

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SIZE D | CODE CS | NUMBER M7819-Ø-1 | REV J

74LS157 E21 — S4 SDI ØH, S12 SDO ØH, S4 SDI 1H, S12 SDO 1H, S4 SDI 2H, S13 SDO 2H, S4 SDI 3H, S13 SDO 3H → S9 SI ØH, S9 SI 1H, S9 SI 2H, S9 SI 3H; STB SØ; S6 MAINT H

74LS157 E22 — S4 SDI 4H, S14 SDO 4H, S4 SDI 5H, S14 SDO 5H, S4 SDI 6H, S15 SDO 6H, S4 SDI 7H, S15 SDO 7H → S9 SI 4H, S9 SI 5H, S9 SI 6H, S9 SI 7H; STB SØ

OSC E67 ** 5.068MHZ — +5V; W1 *; DU1 TEST POINT; NOTE 2

7437 E68 — S9 MASTER CLK L; S9 MASTER CLK H

74LS74Ø E66 — SET, CLR, CLKBØ, CLKØ; R3(1), R2(1), R1(1), R0(1); S9 CLK H; SG MSCAN EN L

74LS175 E98 — D3, D2, D1, DØ; R3(1), R3(Ø), R2(1), R2(Ø), R1(1), R1(Ø), R0(1), R0(Ø); CLR CLK; SG MSCAN EN H

74LS1ØØ E97 — S9 PH1 L, S9 PH2 L

74LS04 E86 — S9 PH 4 L

74LS74 E77

74LS193 E105 — CRY BRW; R3(1), R2(1), R1(1), R0(1); CLR LD CUP CDN; S9 V H

74LS193 E79 — CRY BRW; R3(1), R2(1), R1(1), R0(1); CLR LD CUP CDN; S9 SA H

74LS155 E95 — STBB STBA; DB, DA; SØ S1; fBØ fB1 fB2 fB3, fAØ fA1 fA2 fA3 → S9 SAM Ø L, S9 SAM 1 L, S9 SAM 2 L, S9 SAM 3 L, S9 SAM 4 L, S9 SAM 5 L, S9 SAM 6 L, S9 SAM 7 L

74LS155 E96 — STBB STBA; DB, DA; SØ S1; fBØ fB1 fB2 fB3, fAØ fA1 fA2 fA3 → S9 RDA Ø L, S9 RDA 1 L, S9 RDA 2 L, S9 RDA 3 L, S9 RDA 4 L, S9 RDA 5 L, S9 RDA 6 L, S9 RDA 7 L

S9 SCAN A H, S9 SCAN B H, S9 SCAN C H

+5V; R61 1K; R62 10K; C99 120PF

74LS259 E62 — SB RDØ H, SB RD1 H, SB RD2 H; fØ fl f2 f3 f4 f5 f6 f7 → S9 CS Ø H, S9 CS 1 H, S9 CS 2 H, S9 CS 3 H, S9 CS 4 H, S9 CS 5 H, S9 CS 6 H, S9 CS 7 H

9602 E78 — 54ØØ/74ØØ

74LS74 E88 — S9 DV H; S9 SHØ H

74LS74 E88 — S12 TO S15 DA H, S11 IR H; S9 SHI H

74LS74 E77 — S2 LD LPR L; S2 L DATA H

74LS04 E86 — S11 RDONE H, S2 RD RBUF L; S8 RESET L

74LS08 E87 — 74LS08 E99 — SG SNE H

S9 INH SSYNC L

NOTES

1. * SPLIT LUG JUMPER (W1) MUST BE PUT IN FOR NORMAL OPERATION. WITH JUMPER OUT THE 5.068MHZ OCS IS DISCONNECTED AND AN EXT TEST POINT SIGNAL CAN DRIVE THE SCANNER. THIS POINT IS FOR IN-HOUSE USE ONLY.

2.** FOR M7819-YA USE 1811660-08
2.619 MHZ OSCILLATOR
FOR M7819-YB USE 1811660-09
3.0737 MHZ OSCILLATOR
FOR M7819-YC USE 2M1213A-00
3.3792 MHZ OSCILLATOR

REVISIONS

CHK	CHANGE NO	REV

(RECEIVER CONTROL)

TITLE: OMNIBUS ADAPTER CSR MUX

SIZE D | CODE CS | NUMBER M7819-Ø-1 | REV. J

SCALE — | SHEET 9 OF 15 | DIST

DEC FORM NO DRD 13A

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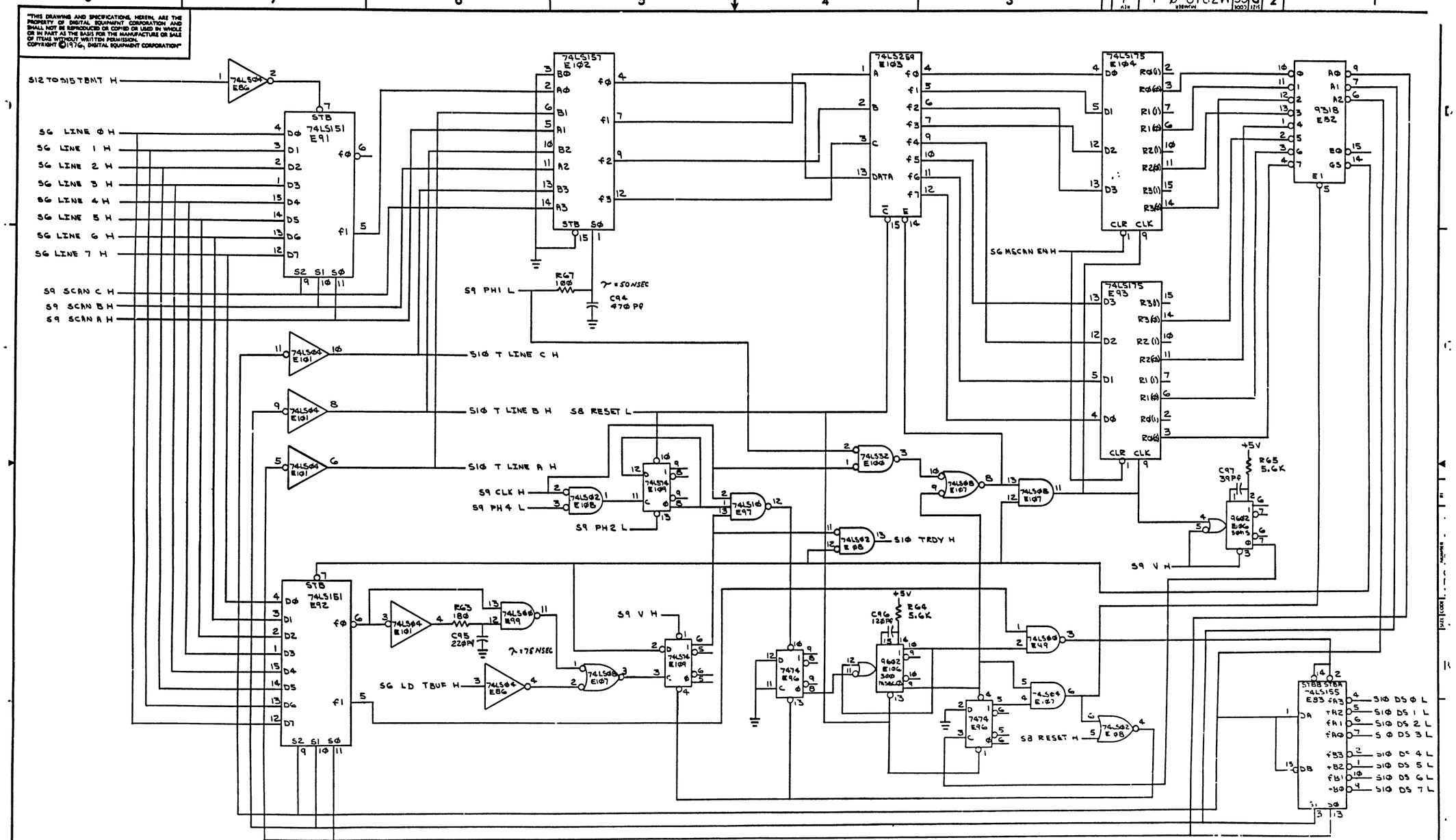

REVISIONS		
CHK	CHANGE NO	REV

(TRANSMITTER CONTROL)

TITLE	SIZE	CODE	NUMBER	REV
8 LINE EIA ASYNCHRONOUS MUX (S2)	D	CS	M7819-Ø-1	U
SCALE 1 -/- SHEET 10 OF 15	DIST			

DEC FORM NO

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S12 TO S15 RDI Φ H
S12 TO S15 RDI 1 H
S12 TO S15 RDI 3 H
S12 TO S15 RDI 2 H
S9 SHO H
S9 SHI H
S6 MSCAN EN L
S12 TO S15 RDI 4 H
S12 TO S15 RDI 5 H
S12 TO S15 RDI 6 H
S12 TO S15 RDI 7 H
S9 SCAN A H
S9 SCAN B H
S9 SCAN C H
S12 TO S15 OVR H
S12 TO S15 PER H
S12 TO S15 FER H

3341 E59 — S11 RDAT Φ H, S11 RDAT 1 H, S11 RDAT 3 H, S11 RDAT 2H
7437 E68
3341 E60 — S11 RDAT 4 H, S11 RDAT 5 H, S11 RDAT 6 H, S11 RDAT 7 H
3341 E58 — S11 R LINE A H, S11 R LINE B H, S11 R LINE C H
3341 E57 — S11 OR H, S11 PE H, S11 FE H
74LS21 E69 — S11 IR H
74LS21 E69 — S11 RDONE H

S9 MASTER CLK H
S9 MASTER CLK L
S8 RD 8 H
S8 RD 9 H
S8 RD 10 H
S8 RD 11 H
S9 CS Φ H
S9 CS 1 H
S9 CS 2 H
S9 CS 3 H
S9 CS 4 H
S9 CS 5 H
S9 CS 7 H
S9 CS 6 H

5Φ16 E53 — S11 X CLK Φ H, S11 R CLK Φ H
5Φ16 E54 — S11 X CLK 1 H, S11 R CLK 1 H
5Φ16 E55 — S11 X CLK 2 H, S11 R CLK 2 H
5Φ16 E56 — S11 X CLK 3 H, S11 R CLK 3 H
74LS259 E64 — S8 RD Φ H, S8 RD 1 H, S8 RD 2 H, S8 RD 12 H, S8 RESET L, S9 INH SSYN L
74LS08 E63 — S11 X CLK 4 H, S11 R CLK 4 H
74LS08 E65 — S11 X CLK 5 H, S11 R CLK 5 H
74LS08 E65 — S11 X CLK 6 H, S11 R CLK 6 H
74LS08 E65 — S11 X CLK 7 H, S11 R CLK 7 H

(...ILE AND UART CLOCKS)

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
...LINE EIA ASYNCHRONOUS MUX (S11)	D	CS	M7819-0-1	J
SCALE —	SHEET 11 OF 15	DIST		

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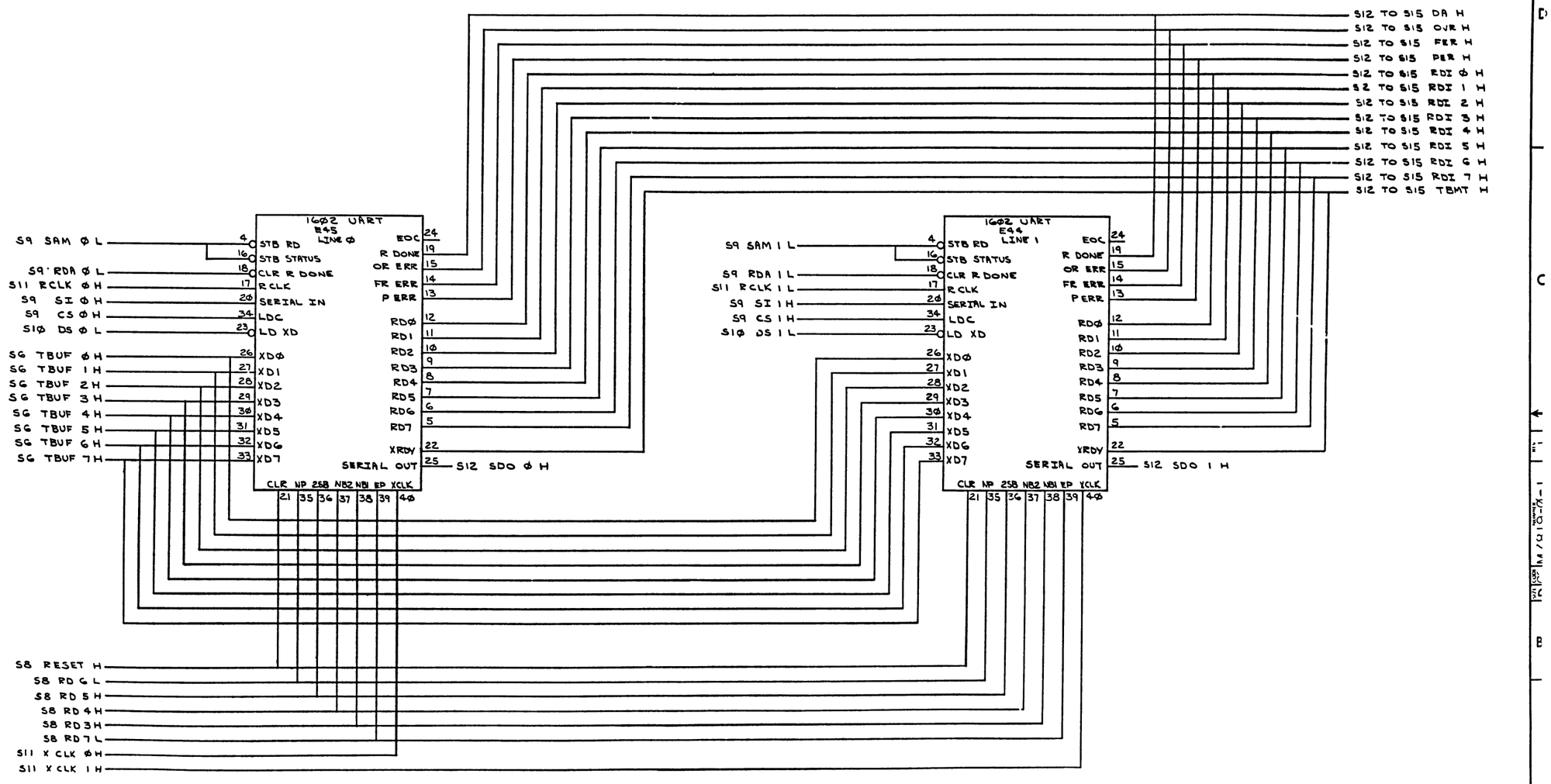

REVISIONS		
CHK	CHANGE NO	REV

(TRANSCEIVER LINES Ø & 1)

TITLE	SIZE	CODE	NUMBER	REV
[illegible] ASYNCHRONOUS MUX (S 2)	D	CS	M7819-Ø--1	J
SCALE --	SHEET 12 OF 15	DIST		

DEC FORM NO. DRD 138

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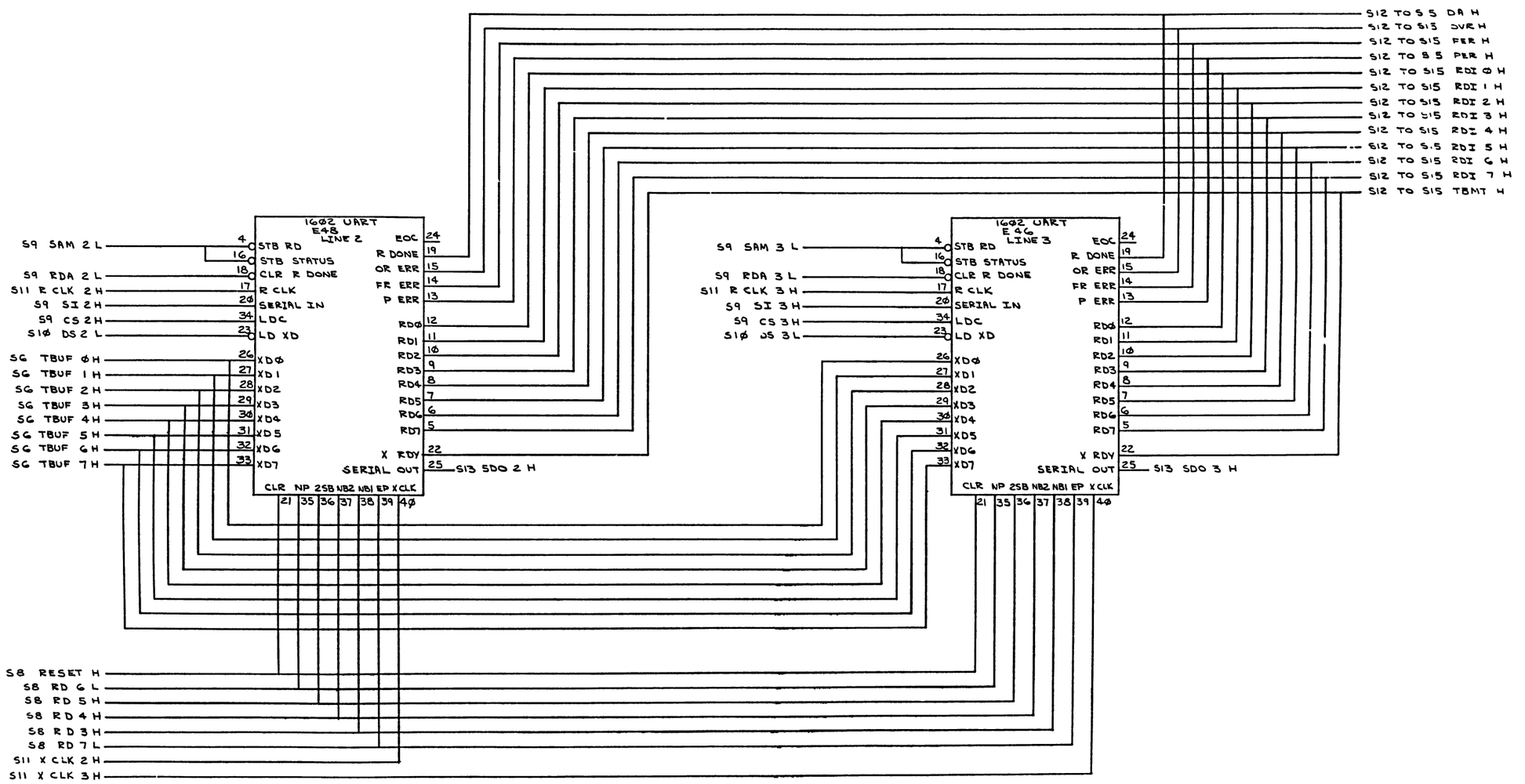

(TRANSCEIVER LINES 2&3)

REVISIONS		
CHK	CHANGE NO	REV

TITLE: 8 LINE EIA ASYNCHRONOUS MUX (S13)
SIZE: D | CODE: CS | NUMBER: M7819-0-1 | REV: J
SCALE: —X— · X— | SHEET 13 OF 15 | DIST

DEC FORM NO. DRD 138

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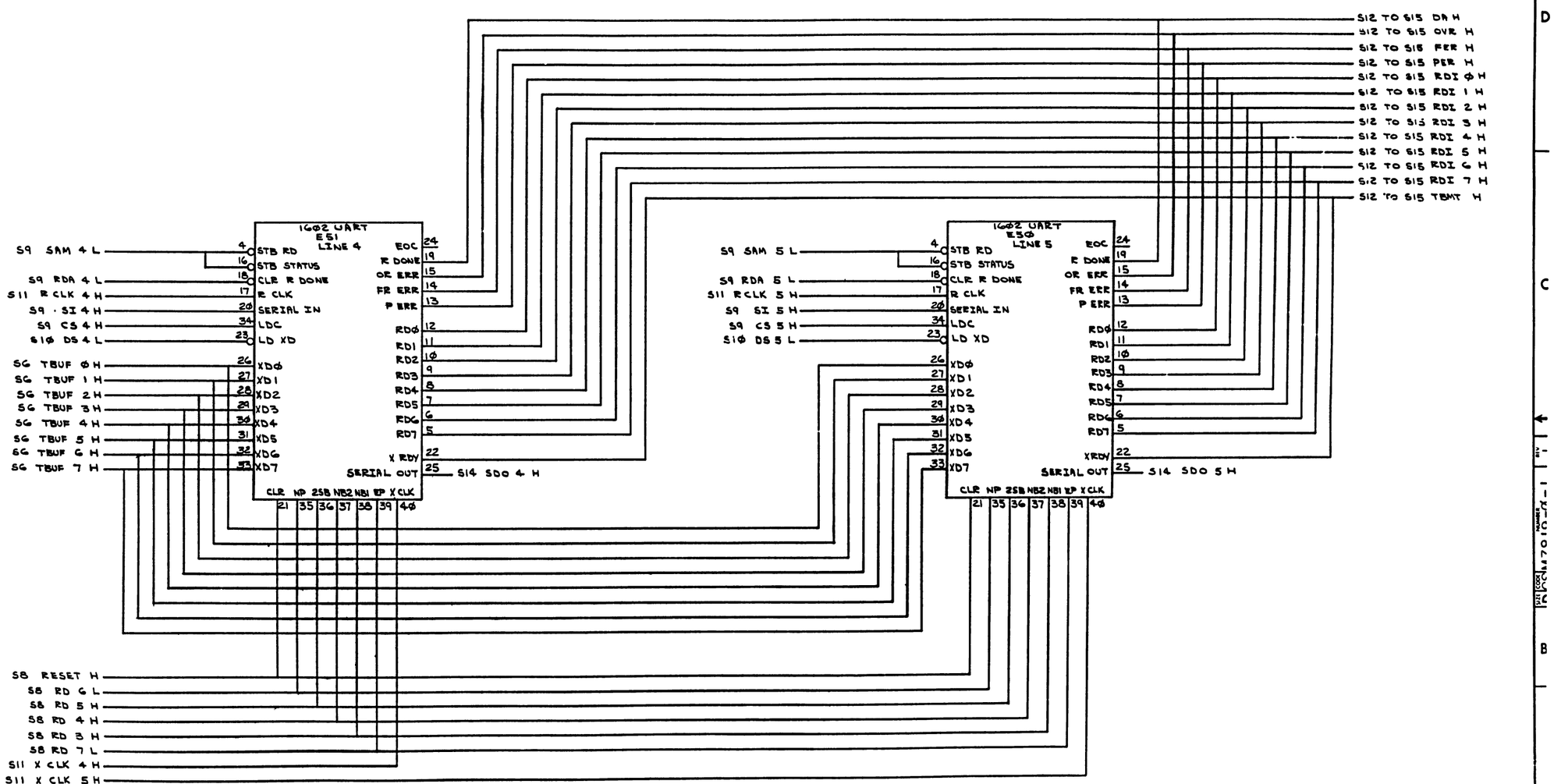

REVISIONS		
CHK	CHANGE NO	REV

TRANSCEIVER LINES 4 & 5

TITLE	SIZE	CODE	NUMBER	REV.
8 LINE EIA ASYNCHRONOUS MUX (S14)	D	CS	M7819-E-1	J
SCALE 1/1	SHEET 14 OF 15	DIST.		

DEC FORM NO. DRD 128

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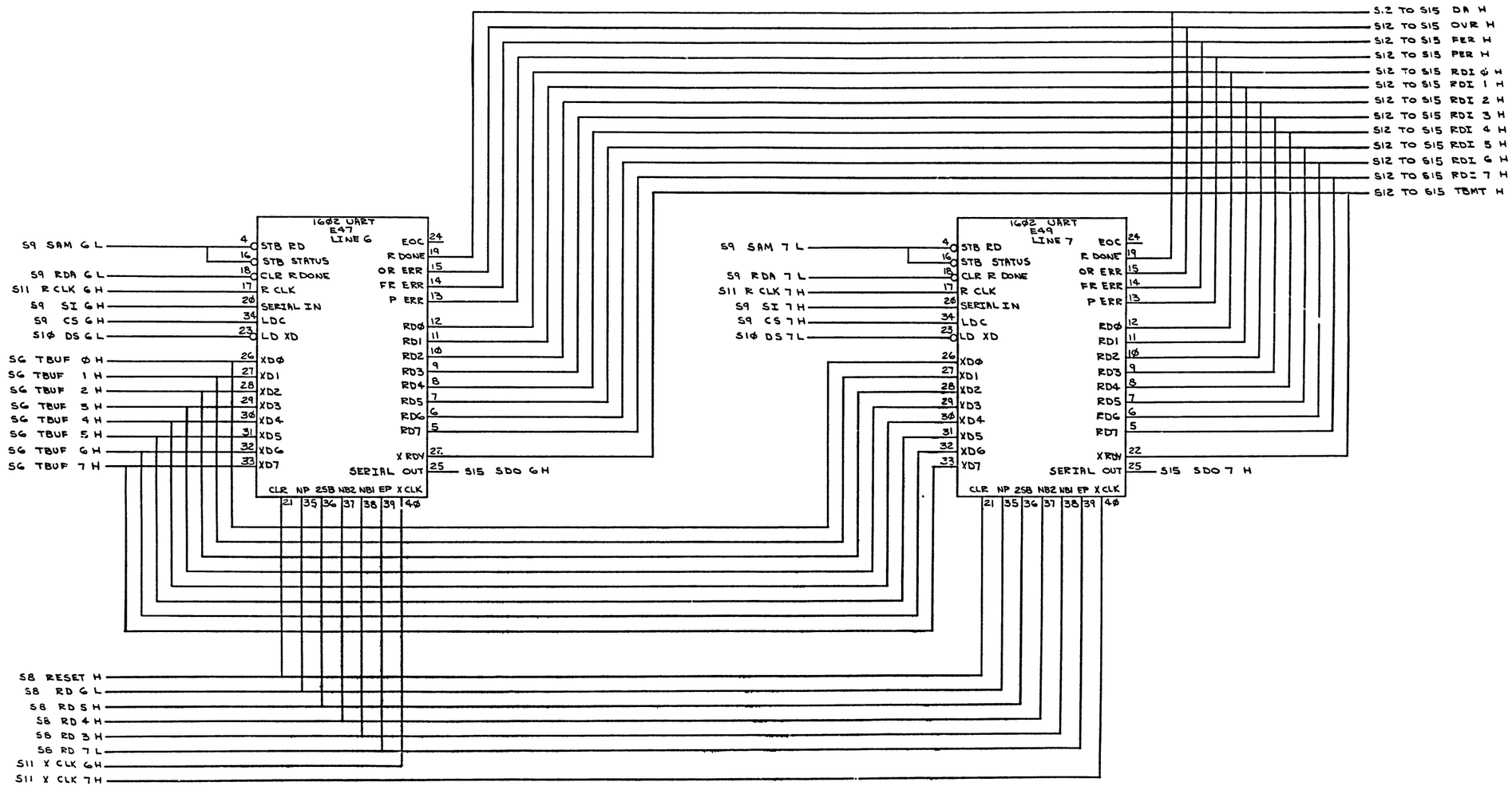


REVISIONS		
CHK	CHANGE NO	REV

TRANSCEIVER LINES 6&7

TITLE	SIZE	CODE	NUMBER	REV.
8 LINE EIA ASYNCHRONOUS MUX (S15)	D	CS	M7819-0-1	J
SCALE —	SHEET 15 OF 15		DIST.	

DEC FORM NO DRD 138

BLANK

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

	SEQUENCE	
DRAWING DIRECTORY		B-DD-H317-0
H317 CABLE BOX ASSY		E-UA-H317-0-0
DJ-11 DIST. PANEL (EIA) CIRCUIT SCHEMATIC		D-CS-5410260-0-1
DJ-11 DIST.PANEL (TTY) CIRCUIT SCHEMATIC		D-CS-5410262-0-1
DV11 DIST.PANEL CIRCUIT SCHEMATIC		D-CS-5411153-0-1
DZ11 DIST PANEL (EIA)		D-CS-5411928-0-1
DZ11 DIST PANEL (TTY)		D-CS-5411974-0-1

	SEQUENCE	
MFG PRINT SET		
PACKAGING INSTRUCTION		A-PI-3700091-0-0

UNIT VARIATIONS

VARIATION	TITLE	PRINT SET TYPE T
H317-A	H317 CABLE BOX ASSY.	X
H317-B	H317 CABLE BOX ASSY	X
H317-C	H317 CABLE BOX ASSY	X
H317-E	H317 CABLE BOX ASSY (EIA)	X
H317-F	H317 CABLE BOX ASSY (TTY)	X

REVISIONS		
DATE	CHG. NO.	REV
3-74	H317-3	A
2-75	H317-4	B
11-75	H317-5	C
12-76	H317-6	D

USED ON OPTION/MODEL	
H317	

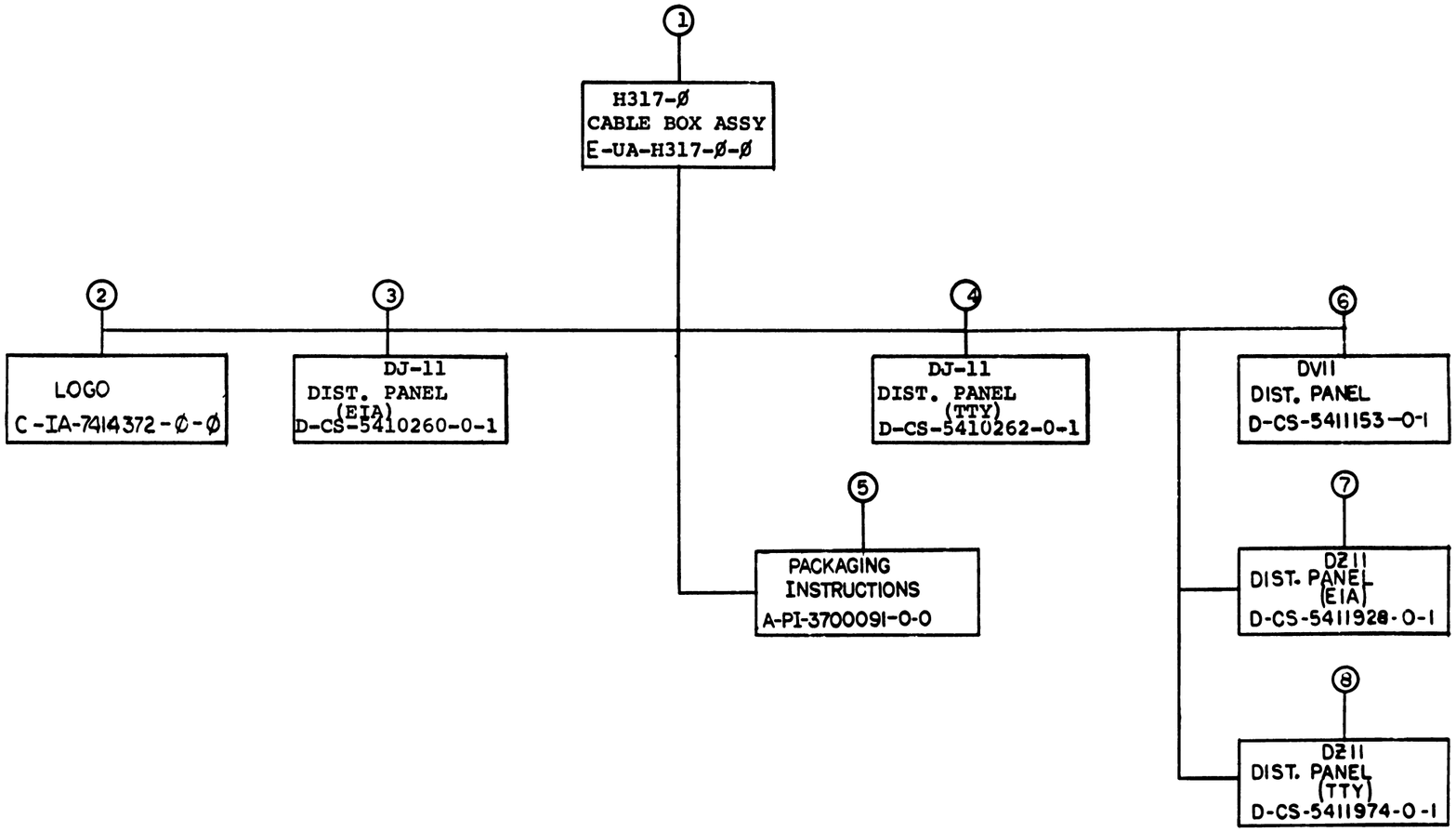
DRN.	P. MARCOTTE	DATE 11/1/2
CHK'D.	C. Teschner	DATE 12/29/78
PROJ ENG.		DATE 11/
PROD.		DATE 11/29/78
FIELD SERV.		DATE 1-25-79
SHEET	1 OF 3	

TITLE
H317
CABLE BOX ASSY.

SIZE	CODE	NUMBER	REV
B	DD	H317-Ø	D

DIST

DRB 106



TITLE	SHEET	SIZE	CODE	NUMBER	REV
H317 CABLE BOX ASSY.	SHEET 2 OF 3	B	DD	H317-Ø	D

ELECTRICAL

CUSTOMER PRINT SET -1	DEPOT SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
X		1	D-UA-H317-Ø-Ø	C	1	H317 CABLE BOX ASSY	
		2	E-IA-7410667-0-0		1	COVER, CABLE BOX	
X		3	D-CS-5410260-0-1	#	3	DJ-11 DIST. PANEL (EIA)	
			B-MH-5410260-0-6		1	MODULE ECO HISTORY	
X		4	D-CS-5410262-0-1	#	6	DJ-11 DIST. PANEL (TTY)	
			B-MH-5410262-0-6		1	MODULE ECO HISTORY	
X		6	D-CS-5411153-0-1	#	3	DV11 DIST PANEL	
			B-MH-5411153-0-6	#	1	MODULE ECO HISTORY	
X		7	D-CS-5411928-0-1	#	2	DZ11 DIST. PANEL (EIA)	
			B-MH-5411928-0-6	#	1	MODULE ECO HISTORY	
X		8	D-CS-5411974-0-1	#	1	DZ11 DIST. PANEL (TTY)	
			B-MH-5411974-0-6	#	1	MODULE ECO HISTORY	

MECHANICAL

CUSTOMER PRINT SET -1	DEPOT SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
		1	E-UA-H317-Ø-Ø		1	H317 CABLE BOX ASSY	
			E-IA-7416243-0-0		1	H317 MTG PLATE	
			D-MD-7416248-0-0		1	BAR SLIDE	
			A-DC-7410681-0-0		1	DECAL, TERM BLOCK	
			D-PS-1213318-0-0		1	BAR, CABLE HOLDOWN	
			D-PS-1212632-0-0		1	COVER CABLE BOX PLASTIC	
		2	C-IA-7414372-0-0		1	LOGO	
			A-SS-7414372-0-1		1	SILKSCREEN H317-A	
			A-SS-7414372-0-2		1	SILKSCREEN H317-B	
			A-SS-7414372-0-3		1	SILKSCREEN H317-C	
			A-SS-7414372-0-6		1	SILKSCREEN H317-E	
			A-SS-7414372-0-7		1	SILKSCREEN H317-F	
		3	D-CS-5410260-0-1	#	3	DJ-11 DIST. PANEL (EIA)	
			K-CO-5410260-0-4		1	X-Y COORDINATE HOLE LOCATION	
			D-AH-5410260-0-5		1	ASSY/DRILLING HOLE LAYOUT	
			B-MH-5410260-0-6		1	MODULE ECO HISTORY	
		4	D-CS-5410262-0-1	#	6	DJ-11 DIST. PANEL (TTY)	
			K-CO-5410262-0-4		1	X-Y COORDINATE HOLE LOCATION	
			D-AH-5410262-0-5		1	ASSY/DRILLING HOLE LAYOUT	
			B-MH-5410262-0-6		1	MODULE ECO HISTORY	
	X	5	A-PI-3700091-0-0		2	PACKAGING INSTRUCTIONS	
			A-PS-9905315-0-0		2	OUTER CARTON	
			A-PS-9905317-0-0		2	LAMINATED TRAY	
			A-PS-9905316-0-0		2	CORRUGATED PAD	
		6	D-CS-5411153-0-1	#	3		
			K-CO-5411153-0-4		1		
			D-AH-5411153-0-5		1		
			B-MH-5411153-0-6		1		
		7	D-CS-5411928-0-1	#	2	DZ11 DIST. PANEL (EIA)	
			K-CO-5411928-0-4		1	X Y COORDINATE HOLE LOC.	
			E-MD-5011927-0-0		4	ASSY/DRILLING HOLE LAYOUT	
			B-MH-5411928-0-6		1	MODULE ECO HISTORY	
		8	D-CS-5411974-0-1	#	1	DZ11 DIST. PANEL (TTY)	
			K-CO-5411974-0-4		1	X-Y COORDINATE HOLE LOC.	
			D-MD-5011973-0-0		3	ASSY/DRILLING HOLE LAYOUT	
			B-MH-5411974-0-6		1	MODULE ECO HISTORY	

TITLE		SIZE	CODE	NUMBER	REV
H317 CABLE BOX ASSY.	SHEET 3 OF 3	B	DD	H317-Ø	D

DEC 16 (325) 1062 2 N87

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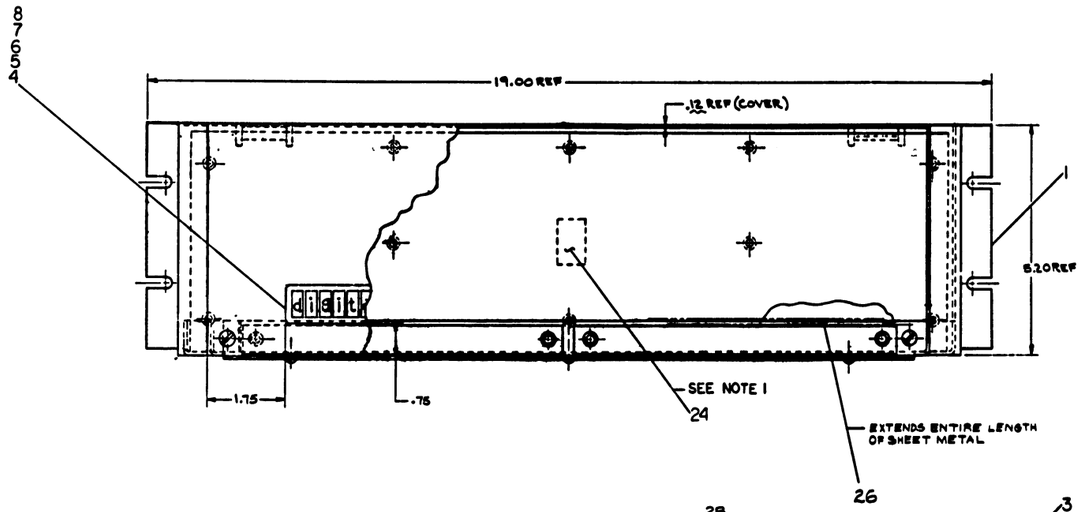
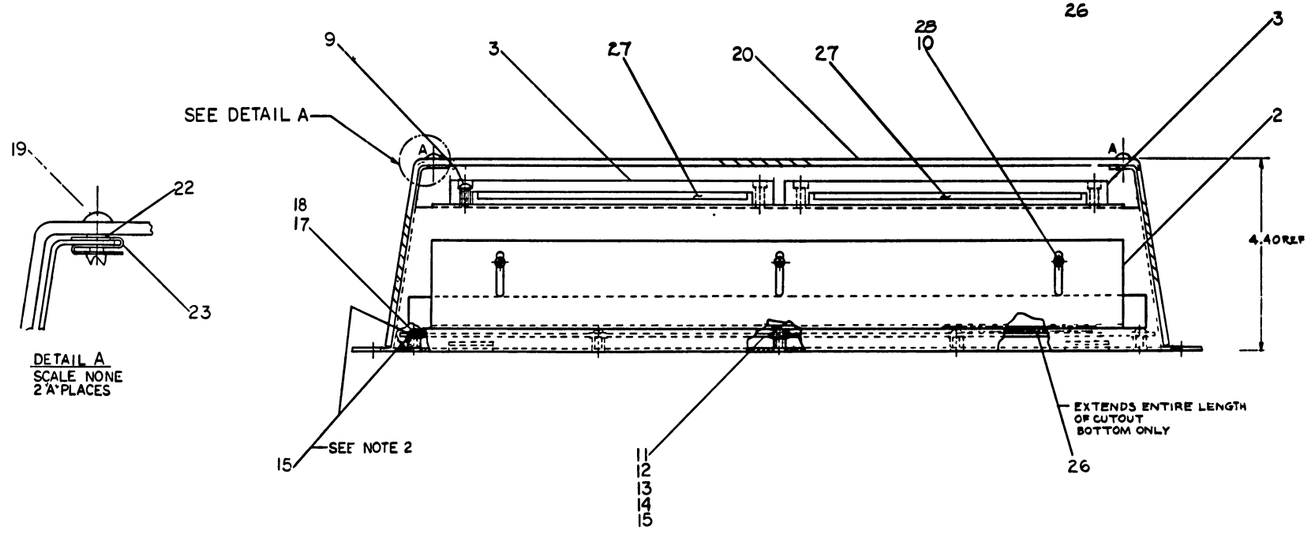
NOTES

1. IF ITEM #11 IS USED THE DECAL (ITEM #24) IS TO BE APPLIED TO THE INSIDE SURFACE OF COVER ITEM #20
2. PRIOR TO MTG. DIST. PANEL, ADHERE NYLON WASHER (ITEM #21) TO STANDOFFS ON MTG PANEL (ITEM #1) USING ECO BOND ADHESIVE (ITEM #16) AND ALLOW TO DRY.
3. USE ASSY TOOL #9608416 TO POSITION LOGO ITEM #4 THRU #8 ON COVER (ITEM #20)
4. ON H317-A USE UPPER HOLES, ON H317-E USE MIDDLE HOLES.





H317-F	H317-E	H317-C	H317-B	H317-A	DESCRIPTION	SIZE/PART NO.	ITEM NO.
3	3	3	3	3	LOCKWASHER INT #6	90041634	23
2	2	2	2	2	FOAM, ADHESIVE .12 X .5 X 6.0	90090857-1	27
AR	AR	AR	AR	AR	GROMMET ALLIGATOR	3007095	26
1	1	1	1	1	PACKING INSTRUCTIONS	A-PI-3700091-00	22
—	—	—	—	1	DECAL	A-DC-7410681-00	24
2	2	2	2	4	FASTENER STUD, 1/4 TURN	9C38446-0-0	21
2	2	2	2	2	RETAINER, SPLIT RING	90068200	20
10	20	20	20	16	WASHER, NYLON #8	90066708	1
1	1	1	1	1	COVER, CABLE BOX PLASTIC	D-PS-1212632-0-0	20
2	2	2	2	2	RECEPTACLE CLIPON	90008196	19
9	10	10	10	8	LOCKWASHER INT #8	90041634	18
8	10	10	10	8	SCR, PHL HD, 8-32 X .25 LG.	90001031-1	17
AR	AR	AR	AR	AR	ECOBOND ADHESIVE	90021156	16
—	—	1	—	—	DVII DIST. PANEL	D-CS-5411153-0-1	15
1	—	—	—	—	DEII DIST PANEL (TTY)	D-CS-5411874-0-1	14
—	1	—	—	—	DBII DIST PANEL (EIA)	D-CS-5411928-0-1	13
—	—	—	1	—	BAII DIST PANEL (EIA)	D-CS-5411930-0-1	12
—	—	—	—	1	BAII DIST PANEL (TTY)	D-CS-5411932-0-1	11
3	3	3	3	3	SCR, PHL HD, 6-32 X .25 LG.	90001031-2	10
4	4	4	4	4	SCR-PHL-MACH HEX-SEMS	90080225-1	9
1	—	—	—	—	LOGO H317-F	C-IA-7414372-8-0	8
—	1	—	—	—	LOGO H317-E	C-IA-7414372-9-0	7
—	—	1	—	—	LOGO H317-C	C-IA-7414372-2-0	6
—	—	—	1	—	LOGO H317-B	C-IA-7414372-1-0	5
—	—	—	—	1	LOGO H317-A	C-IA-7414372-0-0	4
2	2	2	2	2	BAR, CABLE HOLD DOWN	D-PS-1213318-0-0	3
1	1	1	1	1	BAR, SLIDE	D-MD-7416246-0-0	2
1	1	1	1	1	H317 MOUNTING PLATE	D-IA-7416243-0-0	1

QUANTITY & VARIATION

REVISIONS	ZONE	REV
PER ECO# H317-LAA-No 1 F		
PER ECO# H317-LAA-No 1 G		
PER ECO# H317-LAA-No 1 H		

THIRD ANGLE PROJECTION

DO NOT SCALE DRG

MATERIAL: SEE PARTS LIST

FINISH:

DRAWN	8-DD-H317
CHECKED	
ENGR	
PROJ MGR	
PROD MGR	
QUAL ASSUR	
RELEASED	

FIRST USED ON: H317

TITLE: H317 CABLE BOX ASSY

SIZE	CODE	DRAWING	REV
B	LA	H317-0-0	F

SCALE 1/1 SHEET 1 OF 1

H317-0-0

SIZE	CODE	NUMBER	REV.
B	DD	5411928-0-0	C

| DRAWING NO. | NO. OF SHTS | PART NO. | DESCRIPTION | REVISIONS | | |

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY R. A. CORMIER
DATE 2-12-76
ENG Robert A. Cormier
DATE 3-26-76
CHECKED R. A. Cormier
DATE 3-24-76
PROD R. Wall
DATE 3-26-76
SECTION 1
ISSUED SECTION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION	NOTES: / REF DESIGNATION
1	E-MD-5011927-0-0	5011927	ETCHED CIRCUIT BOARD	1	
2		1209941-03	LATCH, LEFT FOR RT. ANG. HEADER	2	
3		1209941-04	LATCH, RIGHT FOR RT. ANG. HEADER	2	
4		1209941-07	CONN. 5ØP. RT. ANG.HEADER	2	J18, J20
5		1205886-01	CONN. D-SUB MIN W/PC TERM	16	J1-J16
6		9009113-10	STANDOFF P.C. BOARD 4-4Ø X .187	32	
7		9008451	SCREWLOCK D2Ø418-2 4-4Ø X .312	32	
8		9009185	JUMPER, WIRE INSULATED	80	W1-W8Ø

E.C.O. NO.

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TITLE DZ11 EIA DISTRIBUTION PANEL

ASSY NO. E-UA-5411928-0-0
SHEET 1 OF 1

SIZE B | CODE PL | NUMBER 5411928-0-0 | REV. B

INSERTION PARTS LIST DATA BASE REV

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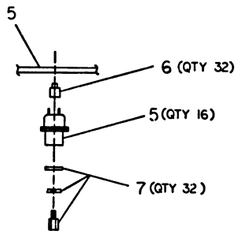
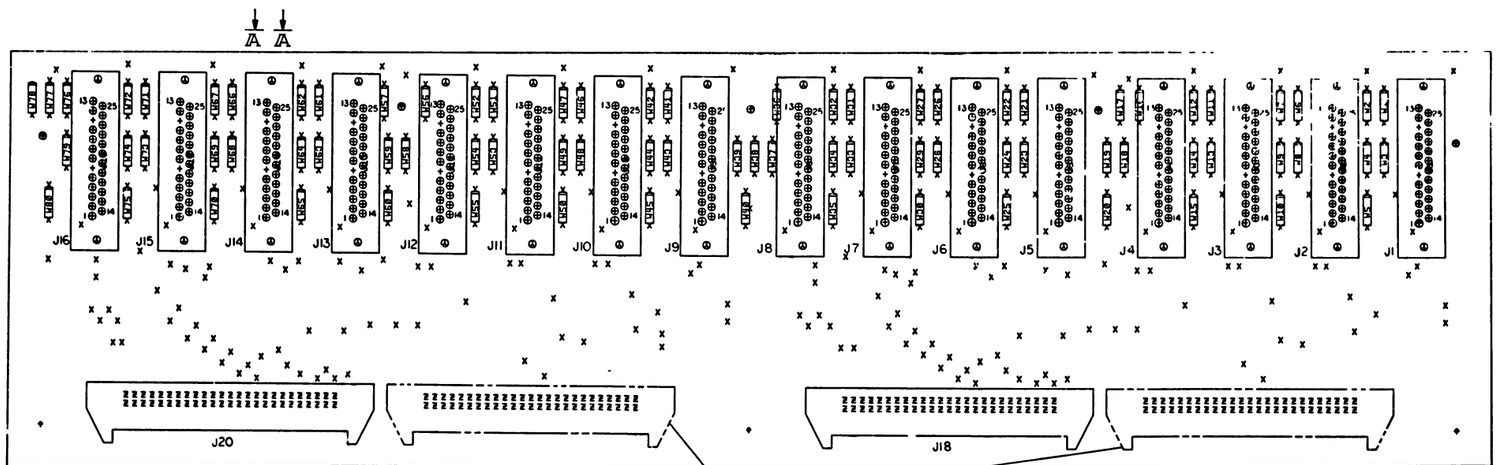


VIEW A-A
(16 PLACES)



SEE NOTE 3

NOTES:
1. BOARD MUST BE DRILLED ON TRUE DRILL MACHINE.
2. .166 HOLES ARE CRITICAL.
3. CONN. BLOCKS IN PHANTOM ARE OPTIONAL.

CHG CHANGE NO. REV.

ETCH REV.
P.C. DESIGN DATA BASE REV.

SIGNATURES	DATE
DRN.	
CHK'D.	
ENG.	
PROJ. ENG.	
PROD. R.W.W.C.	

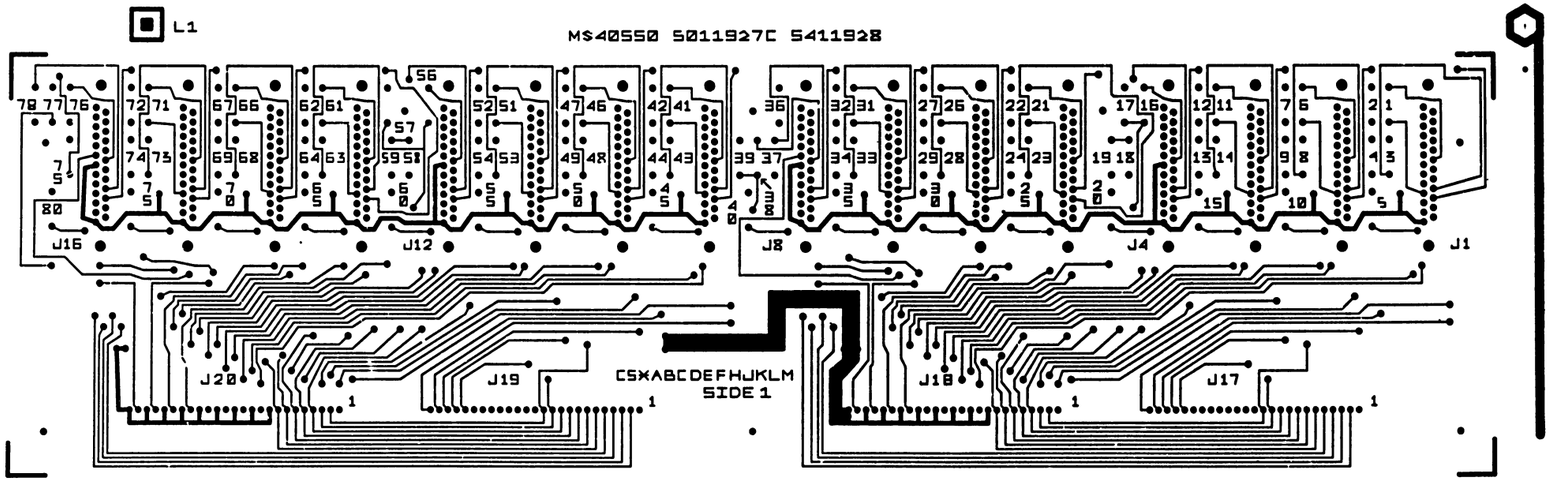
SCALE 2/1
SHT. 1 OF 3
NEXT HIGHER ASSY. E-DD-541928-0-0

digital

TITLE PANEL, EIA DISTRIBUTION

SIZE	CODE	NUMBER	REV
E	UA	541928-0-0	B

SCALE 2/1328R-0-C


L1
M$40550 5011927C 5411928
J16
J12
J8
J4
J1
J20
J19
J18
J17
CSXABCDEFHJKLM
SIDE 1

| | | |

L2

EIA DISTRIBUTION PANEL
5411928 5011927C

MS-40550

SIDE 2

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J1 J2 J3 J4 J5 J6 J7 J8

RTS Ø RTS 1 RTS 2 RTS 3 RTS 4 RTS 5 RTS 6 RTS 7

PGND

SG

W5 W4 W3 W1 DTRØ W2 BUSY Ø

W10 W9 W8 W6 DTR1 W7 BUSY 1

W15 W14 W13 W11 DTR 2 W12 BUSY2

W20 W19 W18 W16 DTR3 W17 BUSY3

W25 W23 W24 W21 DTR 4 W22 BUSY4

W30 W29 W28 W26 DTR 5 W27 BUSY 5

W35 W34 W33 W31 DTR 6 W32 BUSY 6

W40 W36 W37 W38 DTR 7 W39 BUSY 7

RING 3
DTR 3
CARRIER 3
SG 3
REC 3
TRANS 3
RING 4
DTR 4
CARRIER 4
SG 4
REC 4
TRANS 4
RING 5
DTR 5
CARRIER 5
SG 5
REC 5
TRANS 5
RING 6
DTR 6
CARRIER 6
SG 6
REC 6
TRANS 6
RING 7
DTR 7
CARRIER 7
SG 7
REC 7
TRANS 7
P GND

SG1 TRANS 1 REC 1 CARRIER 1 DTR 1 RING 1

SGØ TRANSØ RECØ CARRIER Ø DTRØ RINGØ

RING 2 DTR 2 CARRIER 2 SG2 REC 2 TRANS 2

J18 — 1ST DZ-11 CONN TO M7819

J17 — MODEM CONTROL CONN FOR 1ST DZ-11 (SEE NOTE #3)

NOTES:

1. EXCEPT FOR PGND, SIGNALS ON SHT 1 DO NOT CONNECT WITH SIGNALS ON SHT 2.
2. ALL JUMPERS ARE NORMALLY "IN". THEY ARE OPTIONS RESERVED FOR FUTURE USE.
3. J17 AND J19 ARE NOT INSTALLED. THEY ARE RESERVED FOR FUTURE USE.

REVISIONS			
CHK	CHANGE NO.		REV
—	CAREFABRICATED		C
	5411928-00001		
	M. Bienvenue 6-4-76		
	RACORMIER		
	P.L.A. / J.K. 8-JUN-1976		

DEC FORM NO. DRD 102 D

DRN MD	MAY 11 1976	FIRST USED ON H317E
CHK D. Bienvenue	11/24/76	digital
ENG Anna Gross	3-26-76	TITLE DZ11 EIA DIST PANEL
PROJ ENG P. Racormier	3-26-76	
PROD J. Wood	5-26-76	
NEXT HIGHER ASSY.		
E-AH-5411928-0-5		SIZE D | CODE CS | NUMBER 5411928-0-1 | REV C
SCALE —		
SHEET 1 OF 2		DIST

SHT CODE DCS 5411928-0-1 REV C

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1ST DZ-11 CONNECTIONS

J9 J10 J11 J12 J13 J14 J15 J16

RTS 0 RTS 1 RTS 2 RTS 3 RTS 4 RTS 5 RTS 6 RTS 7

P GND

SG

W45 W44 W43 W41 DTR0 W42 BUSY 0
W50 W49 W48 W46 DTR1 W47 BUSY 1
W55 W54 W53 W51 DTR2 W52 BUSY2
W60 W59 W58 W56 DTR3 W57 BUSY3
W65 W64 W63 W61 DTR4 W62 BUSY4
W70 W69 W68 W66 DTR5 W67 BUSY5
W75 W74 W73 W71 DTR6 W72 BUSY6
W80 W79 W78 W76 DTR7 W77 BUSY7

RING3 DTR3 CARRIER 3 SG3 REC 3 TRANS 3 RING4 DTR 4 CARRIER4 SG4 REC4 TRANS4 RING5 DTR5 CARRIER5 SG5 REC 5 TRANS 5 RING6 DTR6 CARRIER 6 SG 6 REC 6 TRANS 6 RING 7 DTR 7 CARRIER 7 SG7 REC 7 TRANS 7 P GND

SG1 TRANS 1 REC 1 CARRIER 1 DTR1 RING 1

SG0 TRANS 0 REC 0 CARRIER 0 DTR 0 RING 0

RING 2 DTR2 CARRIER 2 SG2 REC 2 TRANS 2

J20 — 2ND DZ-11 CONN TO M7819

J19 — MODEM CONTROL CONN. FOR 2ND DZ-11 (SEE NOTE #3)

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
DZ11 EIA DIST PANEL	D	CS	5411928-0-1	C
SCALE —	SHEET 2 OF 2	DIST		

DEC FORM NO DRD 138

5411928-0-1 C

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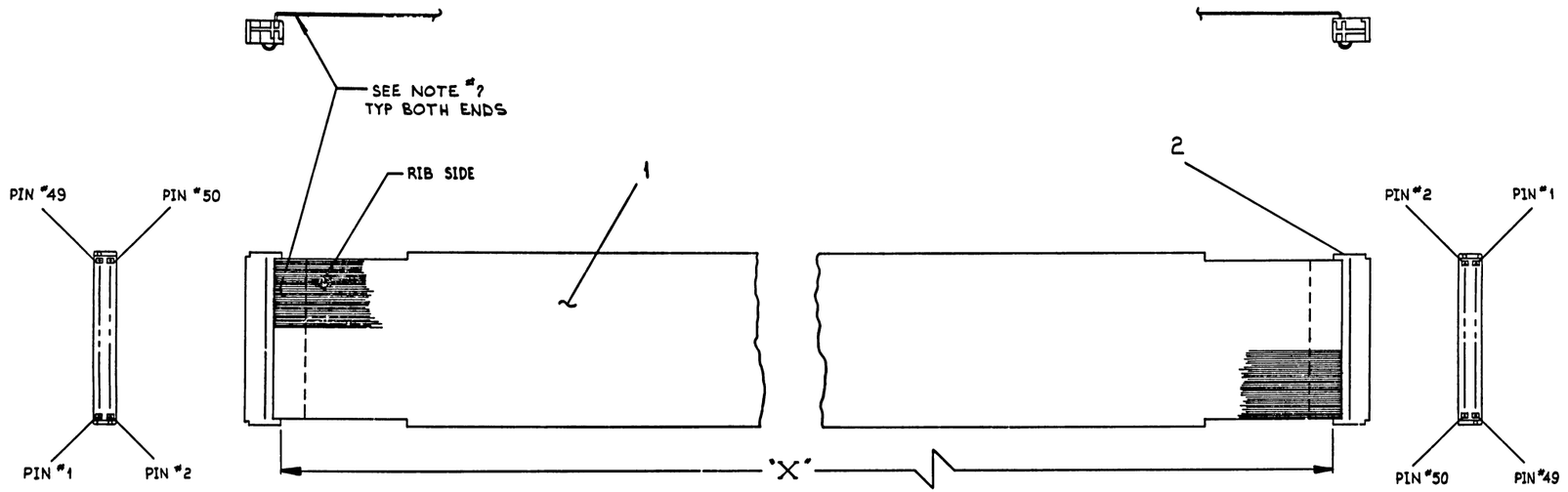
LEGEND	
NUMBER	DIM. "X" VAP.
BCØ5W - Ø2	2 FT. ± 1 IN.
BCØ5W - Ø4	4 FT. ± 1 IN.
BCØ5W - 15	15 FT. ± 3 IN.
BCØ5W - 8	8 FT. ± 2 IN.

NOTE
1. THIS CABLE IS POINT TO POINT. PIN #1 TO PIN #50 AND PIN #2 TO PIN #49 ETC., ETC..
2. STRIP BACK SHIELDING APPROX 1" INCH



REVISIONS			
CHK	CHANGE NO.	REV.	
JCM	BCØ5W-00001	A	J CYR 12/11
JCM	BCØ5W-00002	B	J CYR ""
JCM	BCØ5W-MR0003	C	J CYR 12/6/74

2	CABLE CONN.,50 COND. FLUTE	1211664	2
1	CABLE, 50 COND FLATSHIELDED	70C004-01	1
QTY.	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION/MODEL: KC341-B

DIMENSIONAL TOLERANCE
DIMENSIONS ARE MILLIMETERS / INCHES
UNLESS OTHERWISE SPECIFIED
MILLIMETERS: XX ±0.13, X ±0.8, Y ±2°
INCHES: XX ±.005, X ±.02, Y ±2°
ANGLES: 30' 30'
THIRD ANGLE PROJECTION
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL: SEE PARTS LIST
FINISH: —

DRN.	m. Quinn	DATE 5-15-74
CHK'D.	T. E. C. Reed	DATE 5-17-74
ENG.	/	DATE 12/11/74
PROJ. ENG.	/	DATE 12/11/74
PROD.	W. Gaika	DATE 12/6/74
NEXT HIGHER ASSY.	—	
SCALE	NONE	
SHEET	OF 1	

digital

TITLE: 50 CONDUCTOR SIGNAL CABLE (BCØ5W)

SIZE	CODE	NUMBER	REV
D	IA	BCØ5W-Ø-C	

DIST

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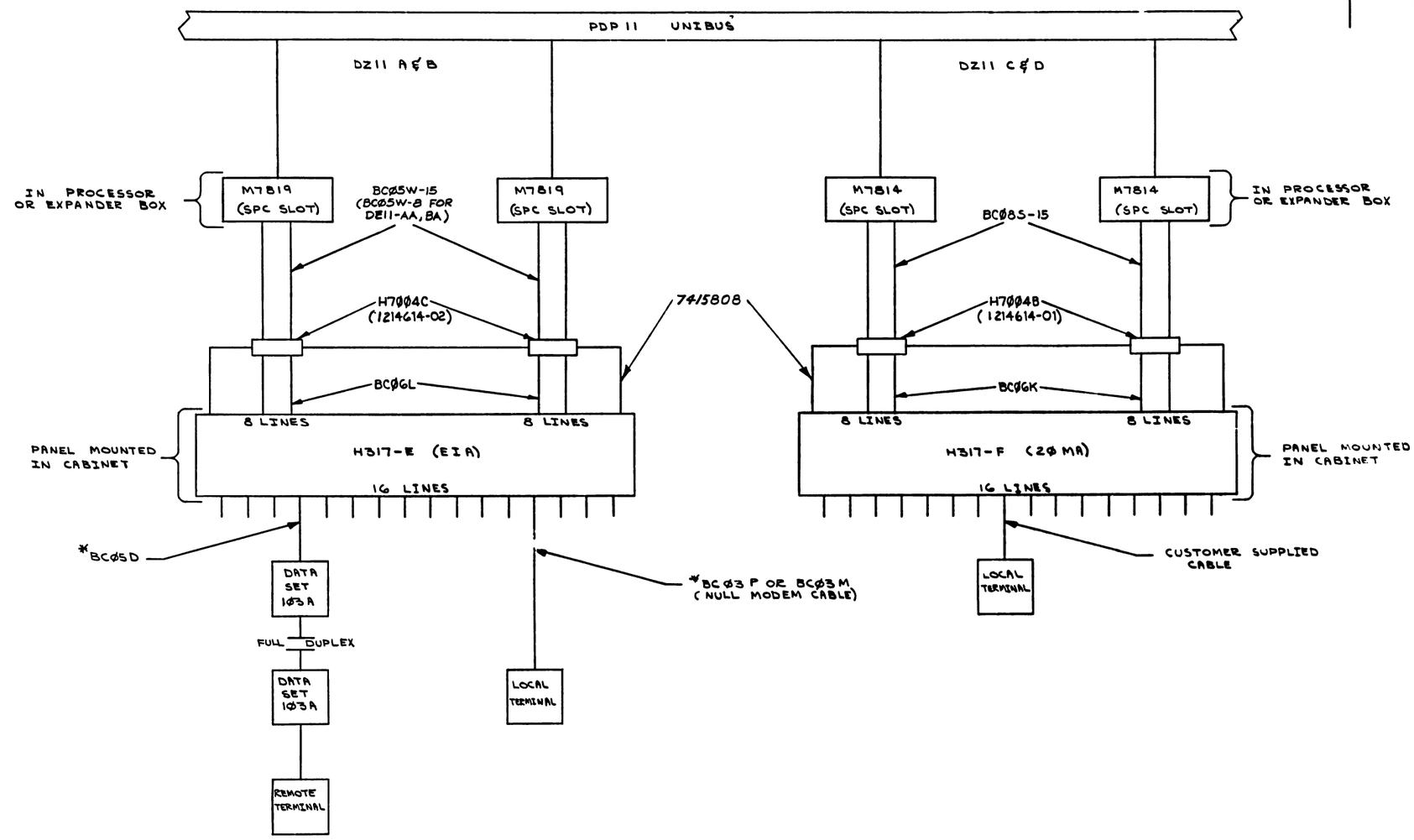
NOTES:
1. * THE BCØ5D, BCØ3M & BCØ3P CABLES ARE NOT INCLUDED IN THE DZ11 OPTION AND MUST BE ORDERED SEPARATELY.



REVISIONS			
ORIG	CHANGE NO.	REV.	
JC	DZ11-00003	A	22 August 77 R. CORMIER
	DZ11-MK005	B	23 August 77 R. CORMIER
	DZ11-MK006	C	7 Mar 78 R. CORMIER

DRN.		3-1-76
CHK'D		5-19-76
ENG.		
PROJ. ENG.		
PROD.		
NEXT HIGHER ASSY.	D-UA-DZ11-Ø-Ø	
SCALE		
SHEET	OF	

FIRST USED ON: DZ11

digital

TITLE: SYSTEM CONNECT DIAGRAM

SIZE	CODE	NUMBER	REV.
D	BD	DZ11-Ø-8	C

DIST

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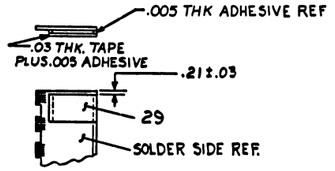
NOTES:

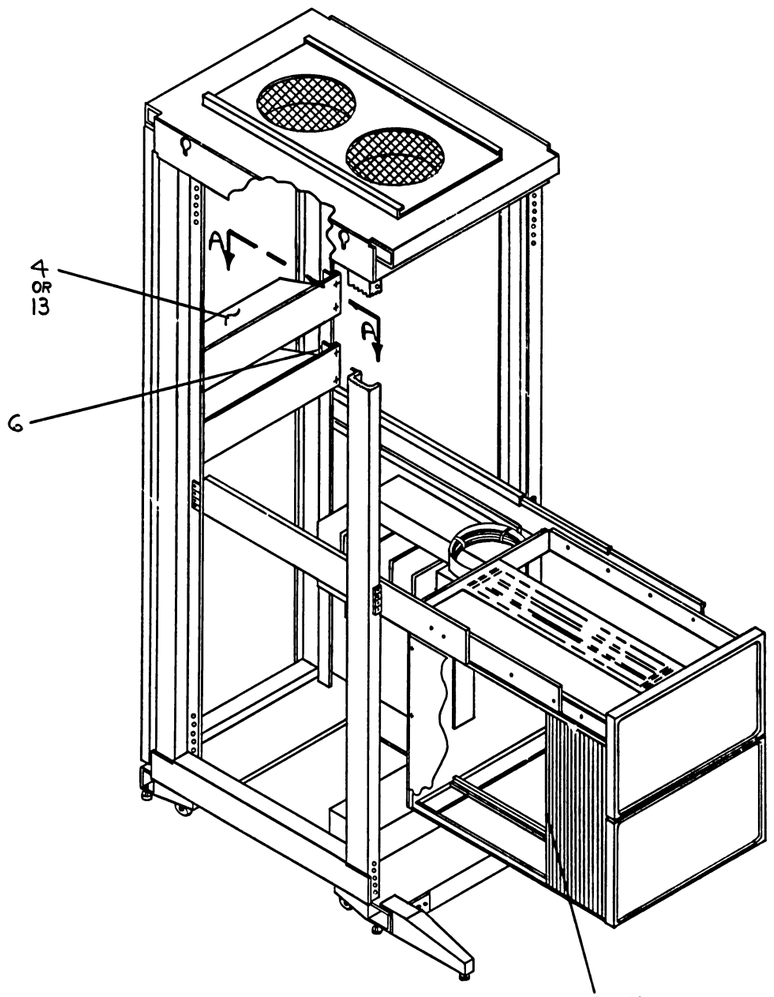
~~1. DO NOT REMOVE SHIP-ING BRACKET.~~

2. TEST CONNECTORS ITEMS 2 & 5 (NOT SHOWN) ARE USED FOR TESTING DZ11 A, B & E. ALSO NOT SHOWN IS A TEST CONNECTOR (ITEM 15) USED FOR TESTING THE DZ11-C, D & F

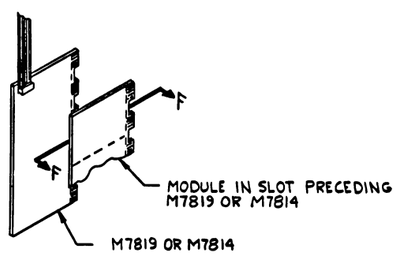
3. AT SYSTEM CONFIGURATION LEVEL, ASSEMBLE ITEM 29 TO MODULE PRECEDING ITEM(S) 1 OR 14. ORIENTATE AS SHOWN. MAKE CERTAIN SURFACES THAT ITEM 29 ADHERE TO ARE FREE FROM GREASE OR OTHER FOREIGN MATTER.



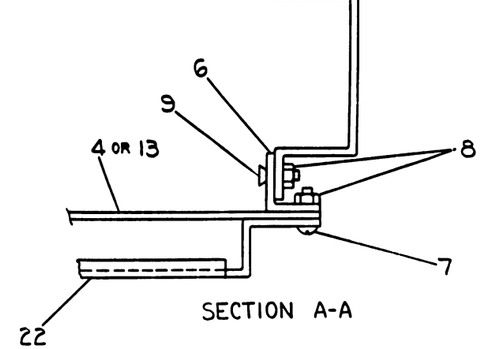
SECTION F-F
SEE NOTE 3



SEE VIEW E-E



VIEW E-E



SECTION A-A

FOR PARTS LIST SEE A-PL-DZ11-Ø-Ø

REVISIONS				
CHK	CHANGE NO.	REV.		
MH	DZ11-00001	A	R.A. CORMIER	4 Jan 77
MH	DZ11-00002	B	R. CORMIER	9 May 77
	DZ11-00003	C	R.A. CORMIER	14 MAY 77
	DZ11-00004	D	R. CORMIER	22 August 77
			P. PORRECA	3 May 78

	DESCRIPTION	DWG./PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		

ANGLES ±0° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES					
		OVER 0 TO 4.3	OVER 4.3 TO 7.3	OVER 7.3 TO 12.5	OVER 12.5 TO 40.0	OVER 40.0 TO 80.0	
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.020	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN. R. Davis 5-4-76

CHK'D B. Cyganiak 5-4-76

ENG. [illegible] 5-4-76

PROJ. [illegible] 5-4-76

PROD. [illegible] 5-14-76

NEXT HIGHER ASSY. B-DD-DZ11-Ø

SCALE NONE

SHEET 1 OF 4

FIRST USED ON DZ11

TITLE UNIT ASSY DZ11

SIZE	CODE	NUMBER	REV.
D	UA	DZ11-Ø-Ø	D

DIST.

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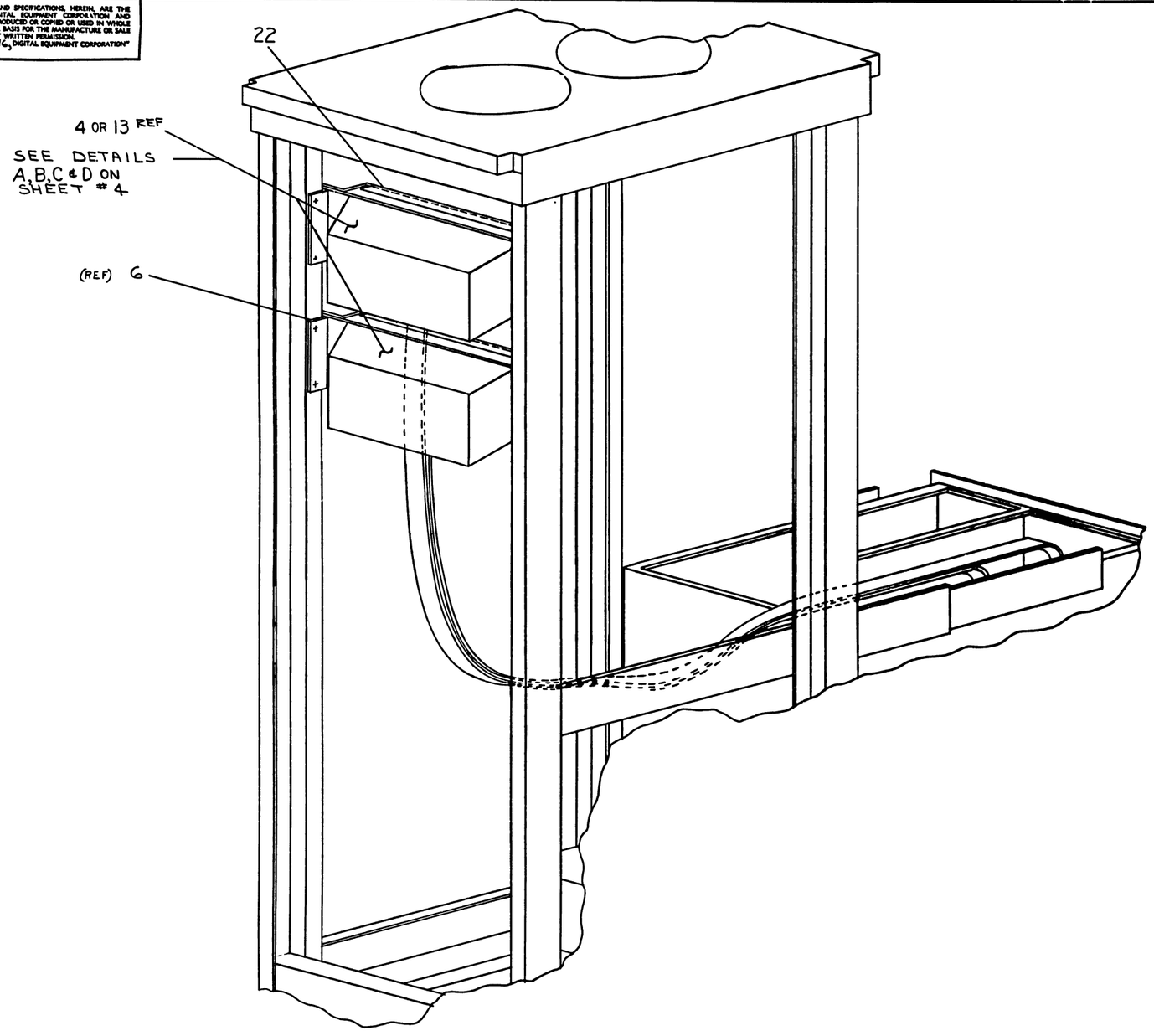

REVISIONS		
CHK	CHANGE NO	REV.

TITLE: UNIT ASSY DZ11		SIZE: D	CODE: UA
SCALE: NONE	SHEET 2 OF 4	NUMBER: DZ11-0-0	REV: 1
		DIST.	

DEC FORM NO. DRD 107

DUA: DZ11-0-0 [D]

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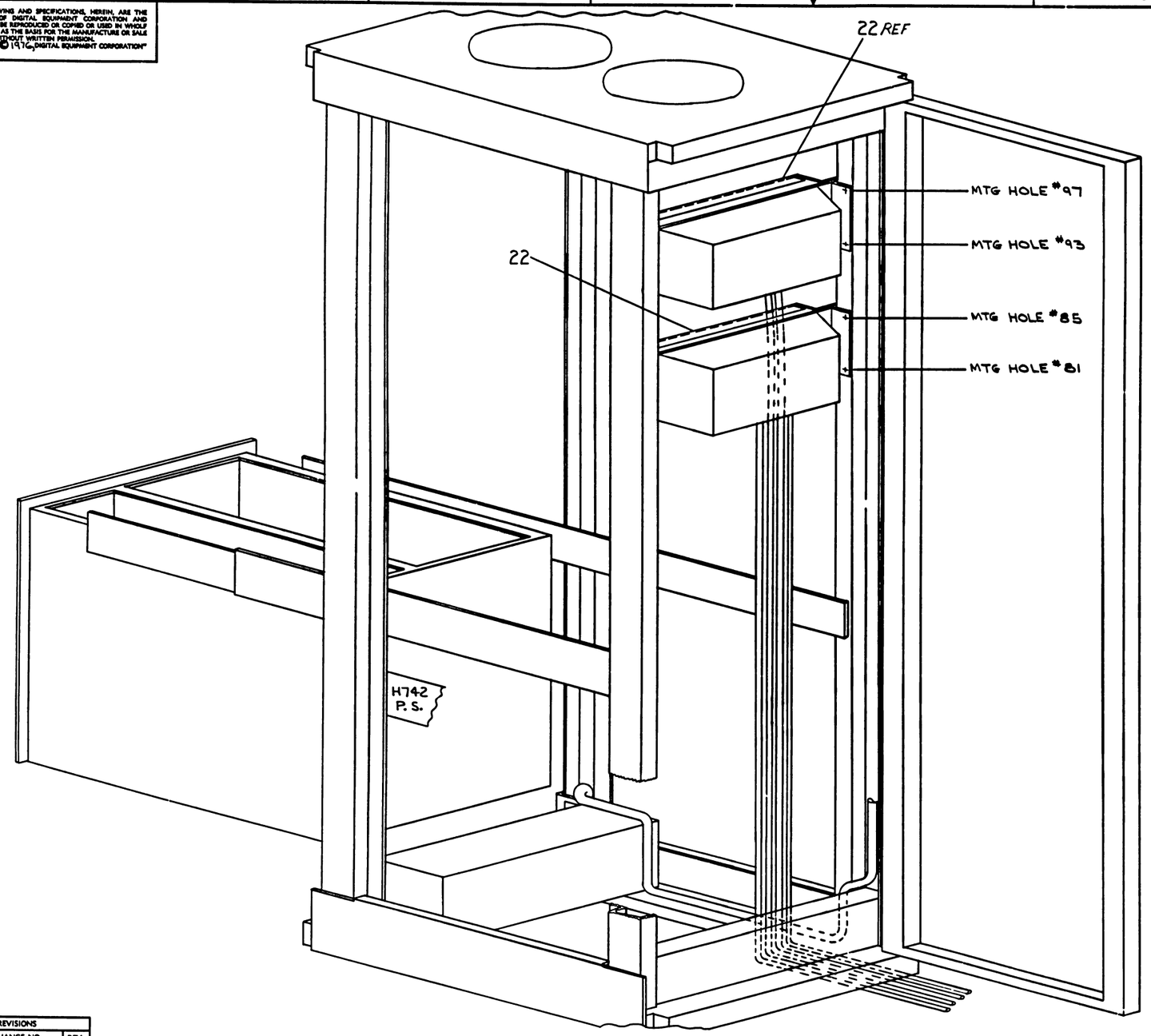

REVISIONS		
CHK	CHANGE NO	REV.

TITLE	SIZE	CODE	NUMBER	REV.
UNIT ASSY DZII	D	UA	DZII-Ø-Ø	D
SCALE NONE SHEET 3 OF 4	DIST.			

DEC FORM NO. 2ND 137

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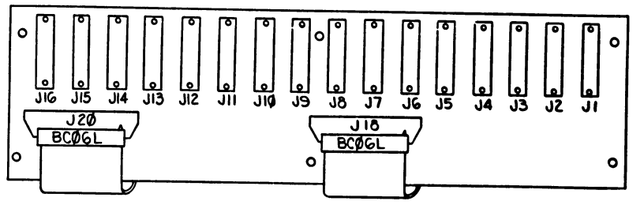
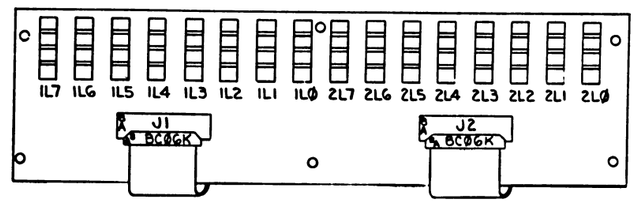
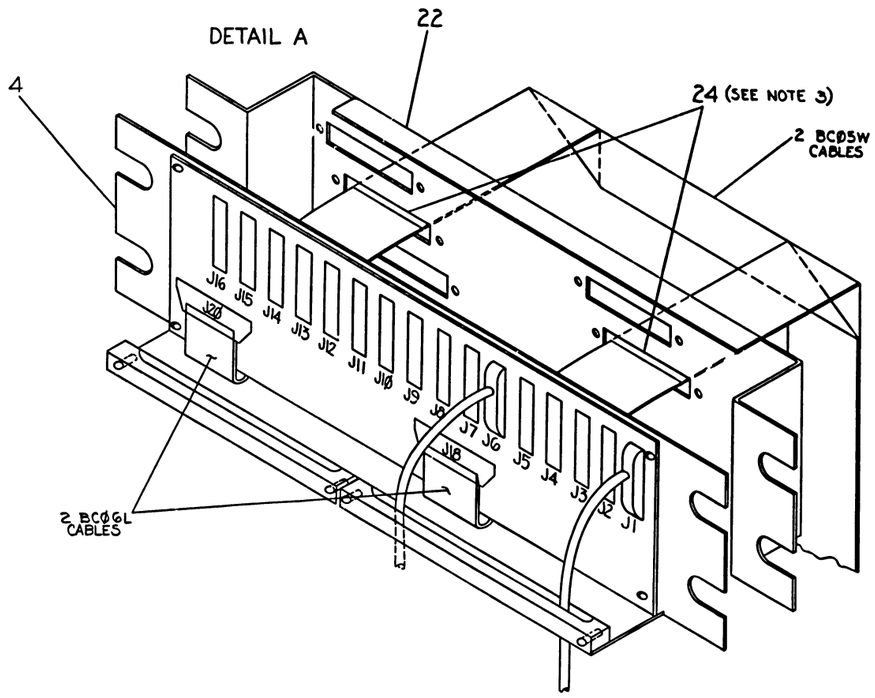
NOTE:
MOUNT FILTERS(ITEM 23 OR 24) TO THE OUTSIDE OF MOUNTING BRACKET (ITEM 22) WITH SCREWS AND LOCKWASHERS (ITEM 27 AND 28)



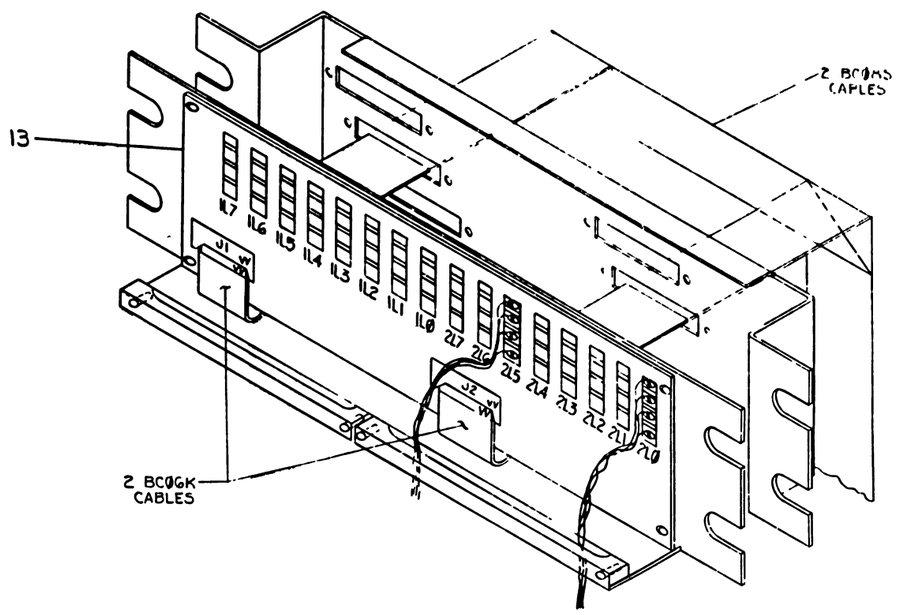


DETAIL A



DETAIL B

DETAIL C



DETAIL D

REVISIONS		
CHK	CHANGE NO	REV.

TITLE	SIZE	CODE	NUMBER	REV.
UNIT ASSY DZ11	D	UA	DZ11-0-0	J
SCALE NONE	SHEET 4 OF 4		DIST	

DEC FORM NO. 3333 137

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY K. DAVIS
DATE 5-4-76

CHECKED P. Cappabianca
DATE 14 May 76

SECTION

ENG Robert Cormier
DATE 5-13-76

PROD Tom McCabe
DATE 5-14-76

ISSUED SECT.

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION DZ11-A	DZ11-B	DZ11-E	DZ11-C	DZ11-D	DZ11-F	DZ11-AA	DZ11-BA	DZ11-EA			
1	D-UA-M7819-Ø-Ø	8 LINE EIA ASYNCHRONOUS MUX	1	1	2	-	-	-	1	1	2			
2	D-UA-H3271-0-0	CONNECTOR, TURN AROUND (E.I.A)	1	-	1	-	-	-	1	-	1			
3	D-IA-BCØ5W-15	5Ø CONDUCTOR SIGNAL CABLE (BCØ5W)	1	1	2	-	-	-	-	-	-			
4	D-UA-H317-E-Ø	H317 CABLE BOX ASSY (EIA)	1	-	1	-	-	-	1	-	1			
5	D-CS-H325-Ø-1	H325 TEST CONNECTOR	1	-	1	-	-	-	1	-	1			
6	C-MD-7414386-0-0	BRACKET, PANEL	2	-	2	2	-	2	2	-	2			
7	9006071-03	SCR,PH,TRUSS,HD, 10-32 X .38	4	-	4	4	-	4	4	-	4			
8	9006565-00	NUT, KEP 10-32	8	-	8	8	-	8	8	-	8			
9	9006073-02	SCR,PH,FL,HD, 10-32 X .50	4	-	4	4	-	4	4	-	4			
~~10~~	~~9007786-00~~	~~NUT, SPEED 10-32~~	~~4~~	~~-~~	~~4~~	~~4~~	~~-~~	~~4~~						
11	D-BD-DZ11-Ø-8	SYSTEM CONNECT DIAGRAM	REF	REF	REF	REF	REF	REF	REF	REF	REF			
12	C-IA-BC08S-15	40 CONDUCTOR SIGNAL CABLE (BC08S)	-	-	-	1	1	2	-	-	-			
13	D-UA-H317-F-Ø	H317 CABLE BOX ASSY (20 MA)	-	-	-	1	-	1	-	-	-			
14	D-UA-M7814-Ø-Ø	8 LINE 20 MA ASYNCHRONOUS MUX	-	-	-	1	1	2	-	-	-			
15	D-UA-H319Ø-0-0	CONNECTOR, TURN AROUND (2Ø MA).	-	-	-	1	1	2	-	-	-			
16	A-SP-3700285-0-0	PKG.INST. CUSTOMER(A VERSION)	1	-	-	-	-	-	1	-	-			
17	A-SP-3700285-1-0	PKG.INST. CUSTOMER(C VERSION)	-	-	-	1	-	-	-	-	-			
18	A-SP-3700285-2-0	PKG.INST. CUSTOMER(B VERSION)	-	1	-	-	-	-	-	1	-			
19	A-SP-3700285-3-0	PKG.INST. CUSTOMER(D VERSION)	-	-	-	-	1	-	-	-	-			
20	A-SP-3700285-4-0	PKG.INST. CUSTOMER(E VERSION)	-	-	1	-	-	-	-	-	1			
21	A-SP-3700285-5-0	PKG.INST. CUSTOMER(F VERSION)	-	-	-	-	-	1	-	-	-			
22	D-IA-7415808-0-0	CONNECTOR, MTG. PANEL	1	-	1	1	-	1	1	-	1			

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
PARTS LIST DZ11	D-UA-DZ11-Ø-Ø	A	PL	DZ11-Ø-Ø	F	DZ11-MK006
	SHEET 1 OF 2	DIST.				

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY K.DAVIS
DATE 4-MAY-76

CHECKED P. CAPPABIANCA
DATE 14-MAY-76

SECTION 1

ENG R. CORMIER
DATE 13-MAY-76

PROD T. McCABE
DATE 14-MAY-76

ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION DZ11-A	DZ11-B	DZ11-E	DZ11-C	DZ11-D	DZ11-F	DZ11-AA	DZ11-BA	DZ11-EA			
23	1214614-01	FILTERED CONNECTOR (40 POS)	-	-	-	1	1	2	-	-	-			
24	1214614-02	FILTERED CONNECTOR (50 POS)	1	1	2	-	-	-	1	1	2			
25	D-UA-BCØ6K-ØJ-Ø	MIRROR IMAGE CABLE (40 POS)	-	-	-	1	1	2	-	-	-			
26	D-UA-BCØ6L-ØJ-Ø	MIRROR IMAGE CABLE (50 POS)	1	1	2	-	-	-	1	1	2			
27	9006022-01	SCR, PHL PAN HD #6-32 x .38	2	2	4	2	2	4	2	2	4			
28	9006633-00	WASHER, INT TOOTH LOCK #6	2	2	4	2	2	4	2	2	4			
29	1215278-00	CABLE PROTECTOR	1	1	2	1	1	2	1	1	2			
30	D-IA-BCØ5W - 8	50 CONDUCTOR SIGNAL CABLE (BCØ5W)	-	-	-	-	-	-	1	1	2			

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
PARTS LIST DZ11	D-UA-DZ11-Ø-Ø	A	PL	DZ11-Ø-Ø	F	DZ11-MK006
	SHEET 2 OF 2	DIST.				

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FOR FIELD MAINTENANCE PRINT SET SEE:

B-TC-DZ11-Ø-6 (DZ11-A,B&E(EIA)
B-TC-DZ11-Ø-11 DZ11-C,D&F(2ØMA)

UNIT VARIATIONS

VAR	TITLE
DZ11-A	8 LINE DBL BUF ASYNC EIA MUX
DZ11-B	DZ11-A MINUS DISTRIBUTION PANEL
DZ11-E	16 LINE ASYNC MUX EIA
	(DZ11-A + DZ11-B)
DZ11-C	8 LINE DBL BUF ASYNC 20MA MUX
DZ11-D	DZ11-C MINUS DISTRIBUTION PANEL
DZ11-F	16 LINE ASYN MUX-20MA (DZ11-C & DZ11-D)
DZ11-AA	8LINE DBL BUF ASYNC EIA MUX W. 8FT. CABLE
DZ11-BA	DZ11-AA MINUS DIST. PANEL
DZ11-EA	DZ11-AA + DZ11-BA

REVISIONS		
CHK	CHANGE NO.	REV.
L.T	DZ11-1	A
K.T	DZ11-2	B
KT	DZ11-3	C
	DZ11-4	D
	DZ11-MKØØ5	E
	DZ11-MK6	F

USED ON OPTION/MODEL	
DZ11	

SHEET 1 OF 3

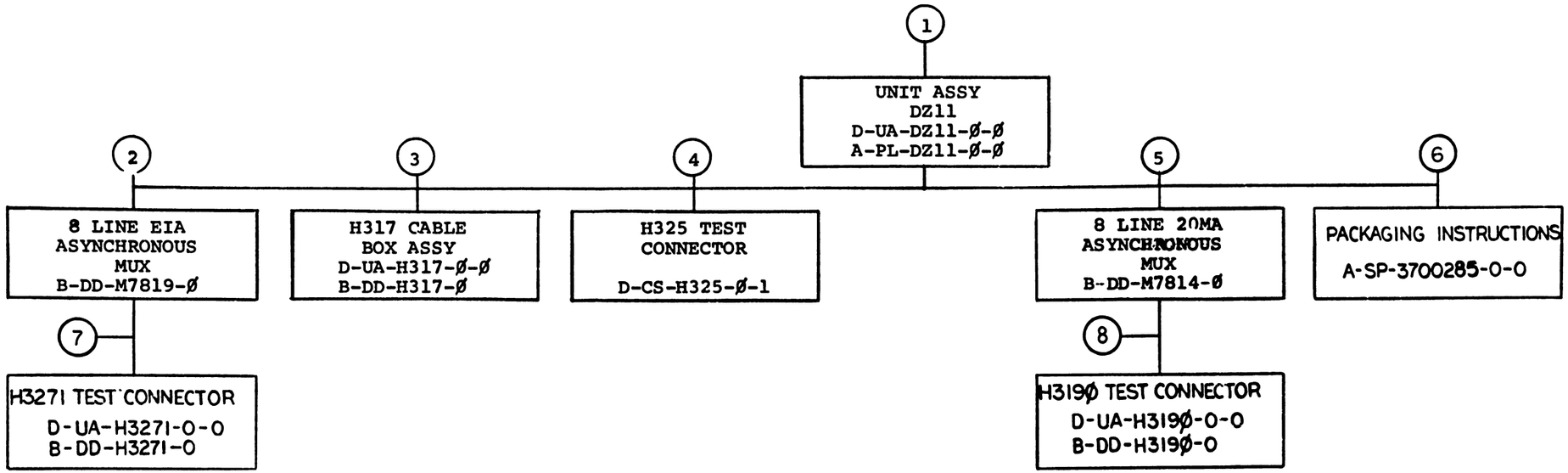
DRN.	K. DAVIS	DATE 5-6-76
CHK'D.	P. Coppolino	DATE 5-14-76
PROJ. ENG.		DATE
PROD.		DATE

TITLE
ASYNCHRONOUS MUX
DZ11

digital

SIZE	CODE	NUMBER	REV
B	DD	DZ11-Ø	F

DIST.



TITLE	SHEET	SIZE	CODE	NUMBER	REV
ASYNCHRONOUS MUX DZ11	SHEET 2 OF 3	B	DD	DZ11-Ø	F

DRB 107

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MPØØ132	DZ11-A,B,&E FIELD MAINTENANCE PRINT SET	-
	B-TC-DZ11-Ø-6	DZ11-A,B,&E FIELD MAINTENANCE PRINT SET (TC)	-
	D-UA-DZ11-Ø-Ø	UNIT ASSY DZ11	E/M
	A-PL-DZ11-Ø-Ø	ASYNCHRONOUS MUX DZ11	E/M
	C-IA-H327-Ø-Ø	CONNECTOR, TURN AROUND	E/M
	D-IA-BCØ5W-Ø-Ø	50 CONDUCTOR SIGNAL CABLE (BCØ5W)	E/M
	C-MD-7414386-Ø-Ø	BRACKET, PANEL	M
	C-IA-BCØ8S-Ø-Ø	40 CONDUCTOR SIGNAL CABLE (BCØ8S)	E/M
	D-UA-BCØ6K-Ø-Ø	MIRROR IMAGE CABLE (40 POS)	E/M
	A-PL-DZ11-Ø-5	SHIPPING LIST	M
	D-BD-DZ11-Ø-8	SYSTEM CONNECT DIAGRAM	E
	D-UA-BCØ6L-Ø-Ø	MIRROR IMAGE CABLE (50 POS)	E/M
	MP00253	DZ11-C,D&F FIELD MAINTENANCE PRINT SET	-
	B-TC-DZ11-Ø-11	DZ11-C,D&F FIELD MAINTENANCE PRINT SET	-
	A-PS-1214614-0-0	H7ØØ4 FILTER CONNECTOR	E/M
	A-SP-DZ11-Ø-1	DZ11 TEST PROCEDURE	E/M
	A-SP-DZ11-Ø-2	DZ11 ACCEPTANCE PROCEDURE	-
	A-SP-DZ11-Ø-9	DZ11 ENGINEERING SPECIFICATION	-
	D-IA-7415808-0-0	CONNECTOR MTG PANEL	M
	A-PS-1215278-00	CABLE PROTECTOR	M
2	B-DD-M7819-Ø	8 LINE EIA ASYNCHRONOUS MUX	E/M
3	D-UA-H317-Ø-Ø	H317 CABLE BOX ASSY	E/M
	B-DD-H317-Ø	H317 CABLE BOX ASSY	E
4	D-CS-H325-Ø-1	H325 TEST CONNECTOR	E/M
	K-CO-H325-Ø-4	X-Y COORDINATE HOLE LOCATION	M
	D-AH-H325-Ø-5	ASSY/DRILLING HOLE LAYOUT	M
	B-MH-H325-Ø-6	MODULE ECO HISTORY	E/M
5	B-DD-M7814-Ø	8 LINE 20 MA ASYNCHRONOUS MUX	E/M
6	A-SP-3700285-0-0	PACKAGING INSTRUCTION	M
7	D-UA-H3271-Ø-Ø	CONNECTOR, TURN AROUND (EIA)	M
	B-DD-H3271-Ø	CONNECTOR, TURN AROUND (EIA)	E/M
8	D-UA-H319Ø-Ø-Ø	CONNECTOR, TURN AROUND (20 MA)	M
	B-DD-H319Ø-Ø	CONNECTOR, TURN AROUND (20 MA)	E/M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

TYPE: E ELECTRICAL
M MECHANICAL
F/M ELECTRO/MECHANICAL

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
ASYNCHRONOUS MUX DZ11	3 OF 3	B	DD	DZ11-0	F

CBB 108A

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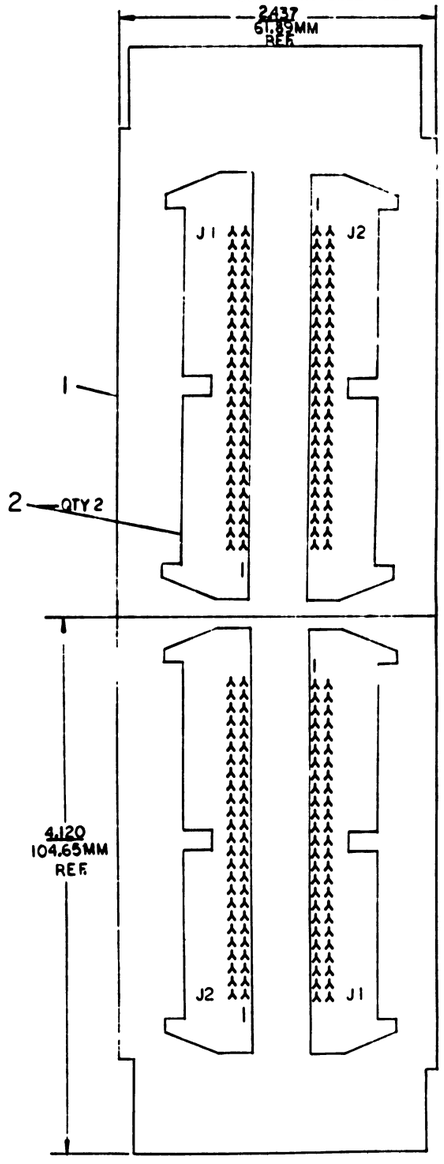
COMPONENT SIDE VIEW



NOTES:

CHK	CHANGE NO	REV
	REDRAWN	C
JV	H3271-MK/A	C
	[illegible]	
	HARRINGTON	
	[illegible]	

ETCH REV. C
P.C. DESIGN DATA BASE REV.:

SIGNATURES	DATE
DRN. [illegible]	11-11-78
CHK'D. [illegible]	15 MAR 79
ENG. [illegible]	15 MAR 79
PROJ. ENG. [illegible]	15 MAR 79
PROD.	
SCALE 2-1	
SHT. 1 OF 3	
NEXT HIGHER ASSY. 8-DD-H3271-0	

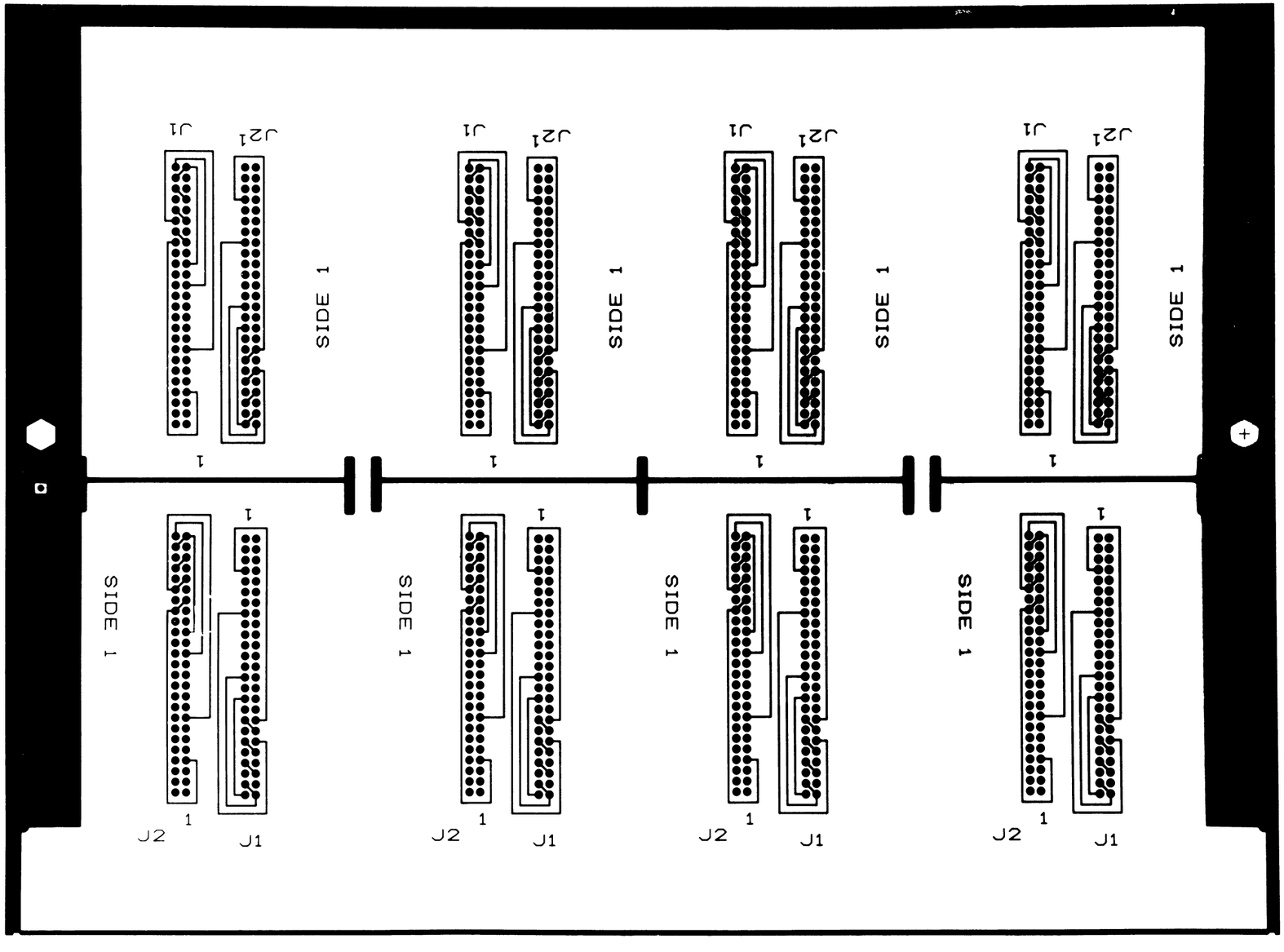
digital

TITLE
TEST CONNECTOR

SIZE	CODE	NUMBER	REV
D	UA	H3271-0-0	C

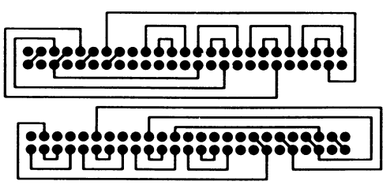
MK 1 MS#301153

H3271-0-0 C



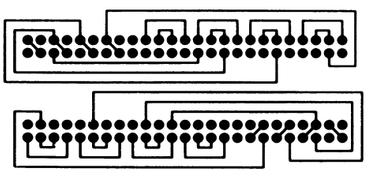
TITLE	SIZE	CODE	NUMBER	REV
TEST CONNECTOR	D	UA	H3271-0-0	C
SCALE 2/1 SHEET 2 OF 3	DIST			

H3271 5012566D
SIDE2



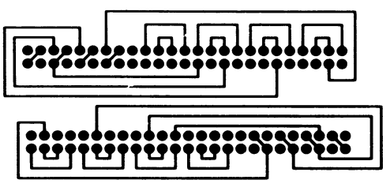
TEST CONNECTOR

H3271 5012566D
SIDE 2



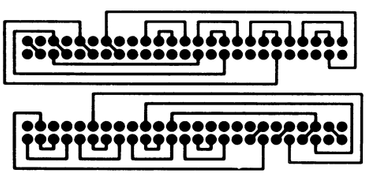
TEST CONNECTOR

H3271 5012566D
SIDE2



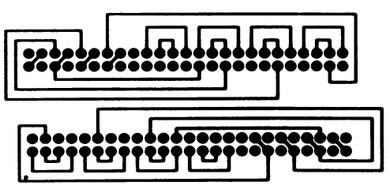
TEST CONNECTOR

H3271 5012566D
SIDE 2



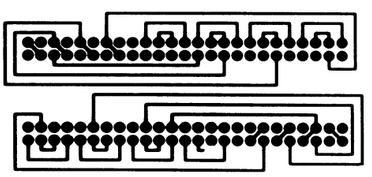
TEST CONNECTOR

H3271 5012566D
SIDE2



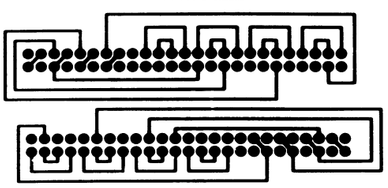
TEST CONNECTOR

H3271 5012566D
SIDE 2



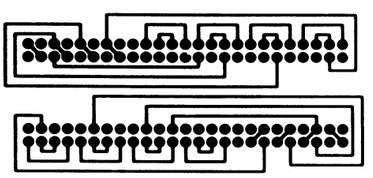
TEST CONNECTOR

H3271 5012566D
SIDE2



TEST CONNECTOR

H3271 5012566D
SIDE 2



TEST CONNECTOR

TITLE	TEST CONNECTOR		
SCALE	2/1	SHEET 3 OF 3	
DIST	SIZE/CODE D UA	NUMBER H3271-0-C	C

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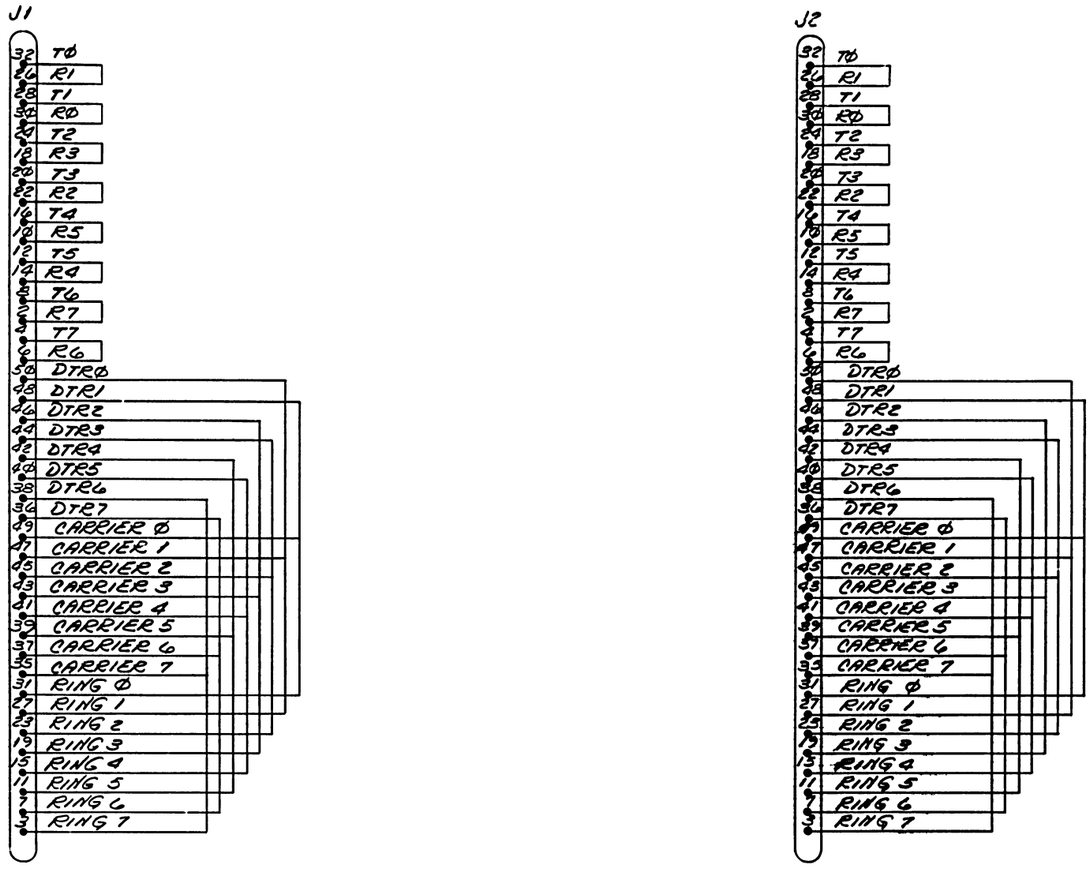

REVISIONS
CHANGE NO

DRN.		FIRST USED ON: DZ11
CHK.		digital
ENG.		TITLE: TEST CONNECTOR
PROG. MGR.		
PROD.		
NEXT HIGHER ASSY.		
D-UA-H3271-0-0		SIZE D · CODE CS · NUMBER H3271-0-1 · REV. C
SCALE		
SHEET 1 OF 1		DIST.

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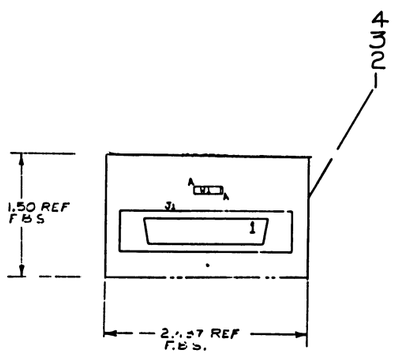
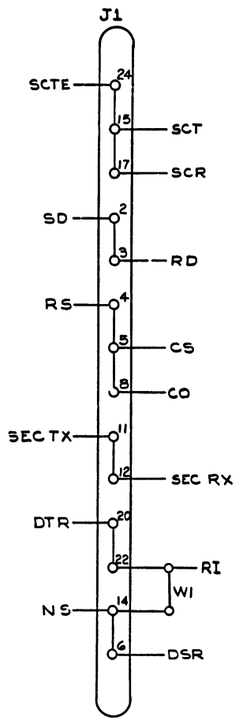
NOTES:





REF		X-Y COORDINATE HOLE LOC	KCO-H325-04	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-H325-05	2
REF		MODULE ECO HISTORY	B-MH-113250-6	3
1		ETCHED CIRCUIT BOARD	5011678	4
1	J1	CONNECTOR	1210247	5
1	W1	INSULATED JUMPER WIRE	9C09155	6

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO

PARTS LIST

ETCH BOARD REV. C

FIRST USED ON OPTION MODEL: DVII

IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

REVISIONS

REV.	CHANGE NO.	
A		
B		
C		

DRN. [illegible] DATE 4/21/75
CHKD. [illegible] DATE 4/24/75
ENG. [illegible] DATE 4/24/75
PROJ. ENG. [illegible] DATE 4/24/75
PROD. [illegible] DATE 4-24-75

NEXT HIGHER ASSY: D-UA-DVII-0-0

SCALE: --

SHEET 1 OF 1

digital

TITLE: H325 TEST CONNECTOR

SIZE	CODE	NUMBER	REV.
D	CS	H325-0-1	C

DIST.

DEC FORM NO. 000 1130

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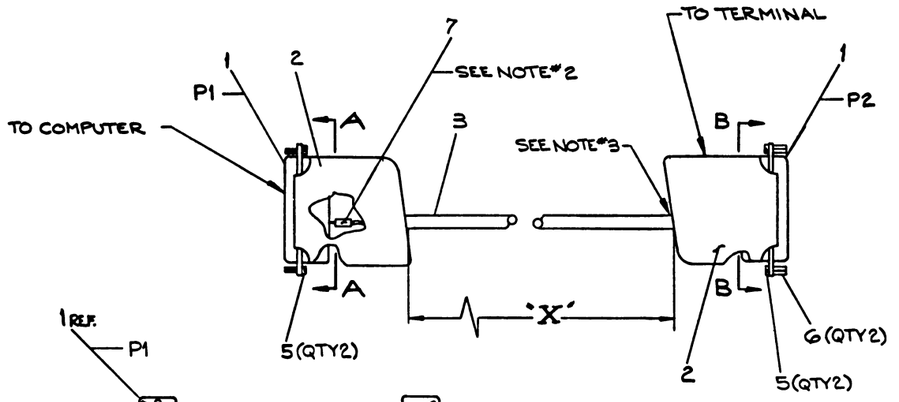
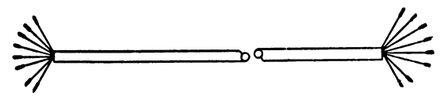
WIRE TABLE

ITEM NO.	DESCRIPTION AWG	COLOR	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH	REMARKS
3	22	BLK	P1-7 NOTE #4	4	P2-7 NOTE #4	4	
3		RED	P1-2	8	P2-3	8	
3		SHIELD	P1-1 NOTE #2&4	4&7	P2-1 NOTE #2	4&7	
3		BLK	P1-7 NOTE #4	4	P2-7 NOTE #4	4	
3		WHT	P1-3	8	P2-2	8	
3		SHIELD	P1-1 NOTE #2&4	4&7	P2-1 NOTE #2	4&7	
3		BLK	P1-6	8	P2-20	8	
3		GRN	P1-20	8	P2-6	8	
3	22	SHIELD	SEE NOTE #3	-	SEE NOTE #3	-	



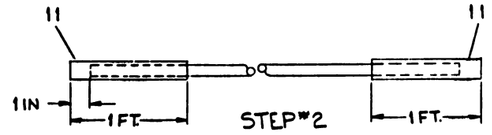
LEGEND

NUMBER	VARIATION DIM "X"	REMARKS
BC03M-01	1 FT.	PREASSEMBLED
BC03M-25	25 FT.	PREASSEMBLED
BC03M-A0	100 FT.	PREASSEMBLED
BC03M-B5	250 FT.	PARTIALLY ASSEMBLED
BC03M-E0	500 FT.	PARTIALLY ASSEMBLED
BC03M-L0	1000 FT.	PARTIALLY ASSEMBLED
BC03M-H5	750 FT.	PARTIALLY ASSEMBLED



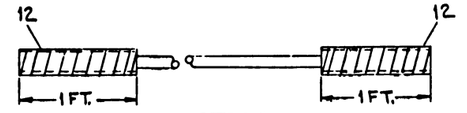
STEP #1

INSTALL ITEM #4, 7 AND 8 TO ITEM #3 (CABLE) PER WIRE TABLE



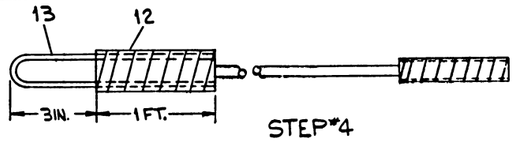
STEP #2

COVER BOTH ENDS WITH ITEM #11 (TUBING, HEAT SHRINK) PER ABOVE DIM'S



STEP #3

COVER BOTH ENDS WITH ITEM #12 (TAPE) PER ABOVE DIM'S



STEP #4

INSTALL ITEM #13 TO ITEM #3 BY USING ITEM #12 (TAPE), PER ABOVE DIM'S THE WIRE LOOP AT END OF CABLE IS USED TO PULL CABLE THREW CONDUIT PIPE, AT INSTALLATION.

NOTES:

1. VARIATIONS AND LENGTHS SHOWN IN LEGEND ARE STANDARD AND ARE SPECIFIED BY NUMERIC DESIGNATION IN FOOT INCREMENTS, THE TOLERANCE ON DIMENSION "X" WILL BE ± 2% OF THE FOOT INCREMENT.
2. DRAIN WIRES TO BE ENCLOSED WITH ITEM #7 (TUBING) FROM END OF CABLE JACKET TO POINT WERE THEY ENTER CONTACT.
3. CUT BACK DRAIN WIRE TO OUTER INSULATION ON BOTH ENDS.
4. THERE ARE TWO WIRES INSTALLED IN EACH #18-20 GA CONTACT (ITEM #4)
5. USE INSERTION/EXTRACTION TOOL (ITEM #9) TO CONSTRUCT CABLE. THIS PIECE IS DISCARDED AFTER USE.
6. 1 FOOT, 25 FOOT AND 100 FOOT CABLES ARE PREASSEMBLED. ALL OTHERS ARE PARTIALLY ASSEMBLED.
7. STEPS 1 THRU 4 ARE FOR CABLE LENGTHS OVER 100 FT.

   REFERENCE INFORMATION

   USE CRIMP TOOL TYPE M22520/1-01 WITH TH185 LOCATOR

   CABLES OVER 100 FT ARE TO BE STOCKED IN KIT FORM AS FOLLOWS PUT ITEMS 1, 2, 5, 6, 9 AND 1 (ONE) COPY OF THIS PRINT INTO PLASTIC BAG (ITEM #10) FOLD OVER CABLE (ITEM #3) AND STAPLE TOGETHER.
8. REMOVE ITEM 6 FOR CONNECTION TO UNITS WITHOUT CABLES I.E. VT05, VT00, ETC.

| | | |

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WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH
1	#22	BLK	P1-1	#4	P2-1	#4
1	#22	RED	P1-2	#4	P2-3	#4
1	#22	GRN	P1-3	#4	P2-2	#4
5	#26	GRN	P1-4	#4	P1-5	#4
1	#22	BLU			P2-8	#4
1	#22	YEL	P1-7	#4	P2-7	#4
1	#22	VIO	P1-8	#4	P2-4	#4
5	#26	GRN	P2-5	#4		
1	#22	GRY	P1-20	#4	P2-6	#4
5	#26	GRN	P2-22	#4		
1	#22	GRN	P1-6	#4	P2-20	#4
5	#26	GRN			P1-22	#4
* 1	#22	BRN	P1-15	#4	P2-17	#4
* 5	#26	GRN			P1-24	#4
* 1	#22	WHT	P1-17	#4	P2-15	#4
* 5	#26	GRN	P2-24	#4		

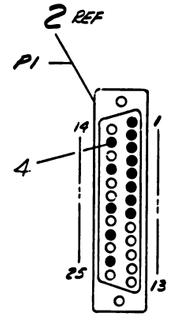
* SEE NOTE #1

LEGEND

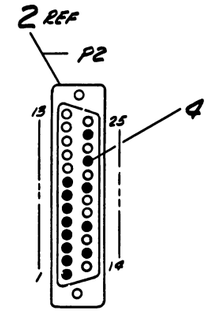
NUMBER	VARIATION DIM "X"	VARIATION DIM "Y" REF
BC03P-2	2 FT ± 1 IN.	2FT 1 IN ± 1 IN
BC03P-25	25FT ± 3 IN	25FT 1 IN ± 3 IN
BC03P-50	50FT ± 10 IN	50FT 1 IN ± 10 IN
BC03P-R0	100FT ± 20 IN	100FT 1 IN ± 20 IN

NOTES:

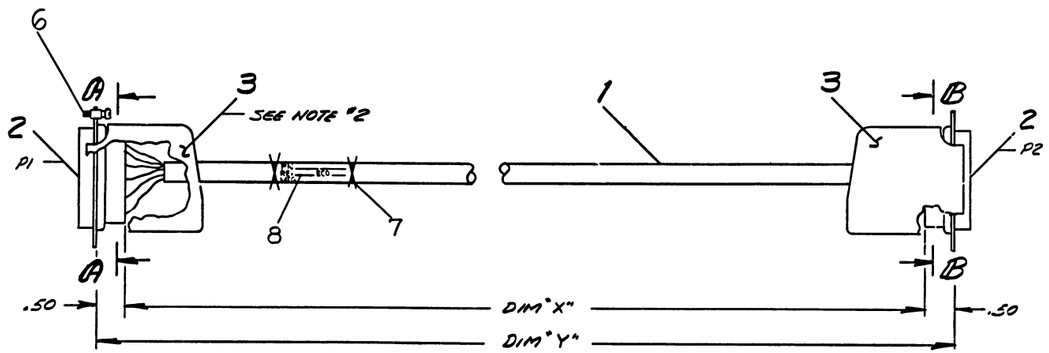
1. DO NOT USE CONS BC03P CABLES BETWEEN SYNCHRONOUS DEVICES BECAUSE THE UNSHIELDED TIMING LEADS (PIN 15 AND 17) CAN CAUSE CROSSTALK. THE BC03P-2 IS BEST FOR THIS TYPE OF APPLICATION.
2. CABLE (ITEM #1) TO GO INSIDE HOOD (ITEM 3) AT LEAST .50 AND WIRES SHOULD BE APPROXIMATELY 1.38 IN. IN LENGTH SO THEY DON'T BUNCH INSIDE HOOD.



VIEW A-A
WITH HOOD REMOVED
SCALE: NONE



VIEW B-B
WITH HOOD REMOVED
SCALE: NONE



1	LABEL, CABLE	9009532	8
2	TIE WRAP (SMALL)	9007031	7
4	SCREW, CAPTIVE ASSY.	90C9722	6
A/R	WIRE #26 AWG (GRN)	9107636-55	5
2G	SOCKET, CRIMP	1210993-41	4
2	HOOD & STRAIN RELIEF	1210993-30	3
2	SHELL & INSERT	1210993-32	2
A/R	CABLE, (10 CONDUCTOR)	9107623	1
	DESCRIPTION	DWG/PART NO.	ITEM NO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO .75	OVER .12 TO .75	OVER .12 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.020	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH

DRAWN	J. ROBERTS	6 Feb 76
CHK'D	R.D. [illegible]	12-1-75
ENG.	[illegible]	12/5/75
PROJ. ENG	R.D. [illegible]	12-3-75
PROD.	R. Wall	12-3-75

NEXT HIGHER ASSY.

SCALE 1/1

SHEET 1 OF 2

FIRST USED ON: DZ11

digital

TITLE: NULL MODEM CABLE ASSY.

SIZE	CODE	NUMBER	REV.
D	IA	BC03P-0-0	B

DIST.

REVISIONS			
CHK.	CHANGE NO.		REV.
J.R.	BC03P-0000	Initial release	A
J.R.	BC03P-0000	Jon S. Roberts 6 Feb 76	B
		D. Hansen 6 May 77	
		R. CORMIER	
		Beatrice Savoie 19 MAY 77	

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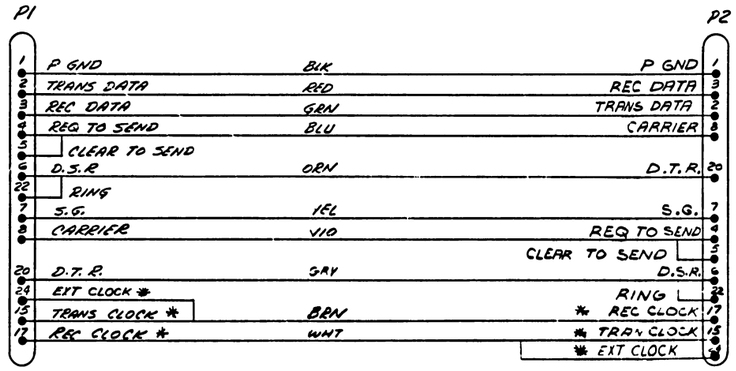

* SEE NOTE #1

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV.
NULL MODEM CABLE ASSY	D	IA	BCØ3P-Ø-Ø	B
SCALE NONE SHEET 2 OF 2	DIST			

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WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM CONN	FROM WITH	TO CONN	TO WITH
2	#30		P1-1	1	P2-2	1
			P1-2		P2-1	
			P1-3		P2-4	
			P1-4		P2-3	
			P1-5		P2-6	
			P1-6		P2-5	
			P1-7		P2-8	
			P1-8		P2-7	
			P1-9		P2-10	
			P1-10		P2-9	
			P1-11		P2-12	
			P1-12		P2-11	
			P1-13		P2-14	
			P1-14		P2-13	
			P1-15		P2-16	
			P1-16		P2-15	
			P1-17		P2-18	
			P1-18		P2-17	
			P1-19		P2-20	
			P1-20		P2-19	
			P1-21		P2-22	
			P1-22		P2-21	
			P1-23		P2-24	
			P1-24		P2-23	
	#30		P1-25	1	P2-26	1

WIRE TABLE

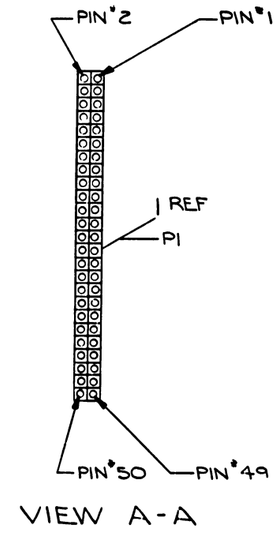
ITEM NO	DESCRIPTION AWG	COLOR	FROM CONN	FROM WITH	TO CONN	TO WITH
2	#30		P1-26		P2-25	
			P1-27		P2-28	
			P1-28		P2-27	
			P1-29		P2-30	
			P1-30		P2-29	
			P1-31		P2-32	
			P1-32		P2-31	
			P1-33		P2-34	
			P1-34		P2-33	
			P1-35		P2-36	
			P1-36		P2-35	
			P1-37		P2-38	
			P1-38		P2-37	
			P1-39		P2-40	
			P1-40		P2-39	
			P1-41		P2-42	
			P1-42		P2-41	
			P1-43		P2-44	
			P1-44		P2-43	
			P1-45		P2-46	
			P1-46		P2-45	
			P1-47		P2-48	
			P1-48		P2-47	
			P1-49		P2-50	
	#30		P1-50	1	P2-49	1

LEGEND

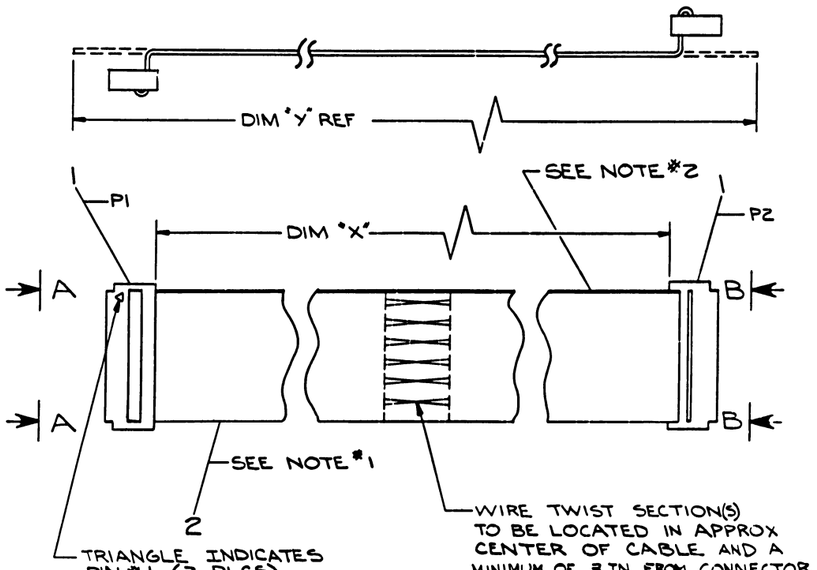
NUMBER	DIM "X" VARIATION	DIM "Y" (PRECUT) REF
BCØ6L-ØJ	8 IN ± .5 IN	9 IN ± .5 IN
BCØ6L-1K	1FT 9IN ± 1 IN	1FT 10 IN ± 1 IN
BCØ6L-7K	7FT 9IN ± 2 IN	7FT 10 IN ± 2 IN
BCØ6L-48	4FT 2 IN ± 2 IN	4FT 3IN ± 2IN

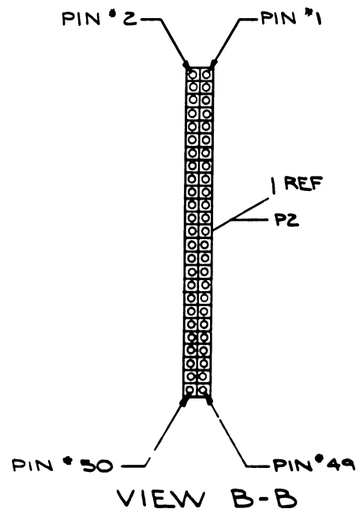
NOTES:

1. "CABLE" (ITEM #2) CONTAINS A TWIST SECTION EVERY 21 INCHES. THERE MUST BE AN ODD NUMBER OF TWIST SECTIONS IN EVERY BCØ6L LENGTH VARIATION.
2. IF RED STRIPING APPEARS ON "CABLE" (ITEM #2) IT IS TO BE POSITIONED AS SHOWN



VIEW A-A





VIEW B-B

REVISIONS			
CHK	CHANGE NO.	REV.	
JC	BCØ6L-00001	A	

A/R	DESCRIPTION	DWG/PART NO	ITEM NO
A	CABLE, RIBBON 50 COND	17000081-01	2
2	CONN 50 PIN SKT	1211664-00	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES OVER 0 TO 0.5	OVER 0.5 TO 2.5	OVER 2.5 TO 12.0	OVER 12.0 TO 60.0	OVER 60.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.005	±.008	±.012	±.016	±.04
	PREFERRED ☒	±.012	±.016	±.020	±.04	±.062

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN		
CHK		7DEC77
ENG		7DEC77
PROJ. ENG		7DEC77
PROD		7DEC77

NEXT HIGHER ASSY.

SCALE

SHEET OF 1

FIRST USED ON H7004-C

digital

TITLE
MIRROR IMAGE CABLE

SIZE	CODE	NUMBER	REV.
D	UA	BCØ6L-Ø-Ø	A

DIST.

D\USER\BCØ6L-Ø-2.A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY K. DAVIS | CHECKED P. Cappabianca | SECTION
DATE 4 MAY 76 | DATE 14 May 76
ENG R. Cormier | PROD Tom McCabe | ISSUED SECT.
DATE 5-13-76 | DATE 5-14-76

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION DZ11-A	DZ11-B	DZ11-E	DZ11-C	DZ11-D	DZ11-F	DZ11-AA	DZ11-BA	DZ11-EA
1	D-UA-M7819-Ø-Ø	8 LINE EIA ASYNCHRONOUS MUX	1	1	2	-	-	-	1	1	2
2	D-UA-H3271-0-0	CONNECTOR, TURN AROUND (EIA)	1	-	1	-	-	-	1	-	1
3	D-IA-BCØ5W-15	5Ø CONDUCTOR SIGNAL CABLE (BCØ5W)	1	1	2	-	-	-	1	-	1
4	EK-DZ11Ø-OP-ØØ1	MANUAL, USER'S	1	-	1	1	-	1	1	-	1
5	ZJ223-RB	DIAGNOSTIC SOFTWARE KIT	1	-	1	1	-	1	1	-	1
6	B-TC-DZ11-Ø-6	DZ11-A,B&E PRINT SET (MPØØ132)	1	1	1	-	-	-	1	1	1
~~7~~	~~B-TC-DZ11-Ø-10~~	~~DZ11-B PRINT SET~~	~~-~~	~~1~~	~~-~~						
8	D-CS-H325-Ø-1	H325 TEST CONNECTOR	1	-	1	-	-	-	1	-	1
9	D-UA-H317-E-Ø	H317 CABLE BOX ASSY (EIA)	1	-	1	-	-	-	1	-	1
10	MAINDEC-11-DXQLL	DEC/X11 LIBRARY *	1	-	1	1	-	1	1	-	1
11	C-IA-BC08S-15	40 CONDUCTOR SIGNAL CABLE (BC08S)	-	-	-	1	1	2	-	-	-
12	D-UA-H317-F-0	H317 CABLE BOX ASS (20 MA)	-	-	-	1	-	1	-	-	-
13	B-TC-DZ11-0-11	DZ11 C,D & F PRINT SET (MPØØ253)	-	-	-	1	1	1	-	-	-
~~14~~	~~B-TC-DZ11-0-12~~	~~DZ11-D PRINT SET~~	~~-~~	~~-~~	~~-~~	~~-~~	~~1~~	~~-~~			
15	D-UA-M7814-0-0	8 LINE 20MA ASYNCRONOUS MUX	-	-	-	1	1	2	-	-	-
16	MAINDEC-11-DZDZB-REV-D	ITEP LISTING	1	-	1	-	-	-	1	-	1
17	MAINDEC-11-DZDZB-REV-PB	ITEP OVERLAY TAPE	1	-	1	-	-	-	1	-	1
18	D-IA-7415808-0-0	CONNECTOR MTG PANEL	1	-	1	1	-	1	1	-	1
19	1214614-01	FILTERED CONNECTOR (40 POS)	-	-	-	1	1	2	-	-	-
20	1214614-02	FILTERED CONNECTOR (50 POS)	1	1	2	-	-	-	1	1	2
21	D-UA-BC06K-ØJ	MIRROR IMAGE CABLE (40 POS)	-	-	-	1	1	2	-	-	-
22	D-UA-BC06L-ØJ	MIRROR IMAGE CABLE (50 POS)	1	1	2	-	-	-	1	1	2

TITLE: SHIPPING LIST DZ11 | ASSY NO. D-UA-DZ11-Ø-Ø | SHEET 1 OF 2 | SIZE A | CODE PL | NUMBER DZ11-Ø-5 | REV. E | ECO NO. DZ11-MKØØ6 | DIST.

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY K. DAVIS | CHECKED P. CAPPABIANCA | SECTION
DATE 4 MAY 76 | DATE 14 MAY 76 | 1
ENG R. CORMIER | PROD T. McCABE | ISSUED SECT.
DATE 5-13-76 | DATE 5-14-76 | 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION DZ11-A	DZ11-B	DZ11-E	DZ11-C	DZ11-D	DZ11-F	DZ11-AA	DZ11-BA	DZ11-EA
23	D-UA-H3190-0-0	CONNECTOR, TURN AROUND (20 MA)	-	-	-	1	1	2	-	-	-
24	D-IA-BCØ5W-8	50 CONDUCTOR SIGNAL CABLE (BCØ5W)	-	-	-	-	-	-	1	1	2
		*THIS LIBRARY IS A BOOK THAT INCLUDES									
		THE DZ11 DEC/X11 SYSTEM EXERCISER									
		LISTING (MAINDEC-11-DXDZA-REV-D).									

TITLE: SHIPPING LIST DZ11 | ASSY NO. D-UA-DZ11-0-0 | SHEET 2 OF 2 | SIZE A | CODE PL | NUMBER DZ11-Ø-5 | REV. E | ECO NO. DZ11-MKØØ6 | DIST.

DEC FORM DEC 16-(325)-1031-N870

BLANK